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ORAL HYGIENE



OCTOBER 1923

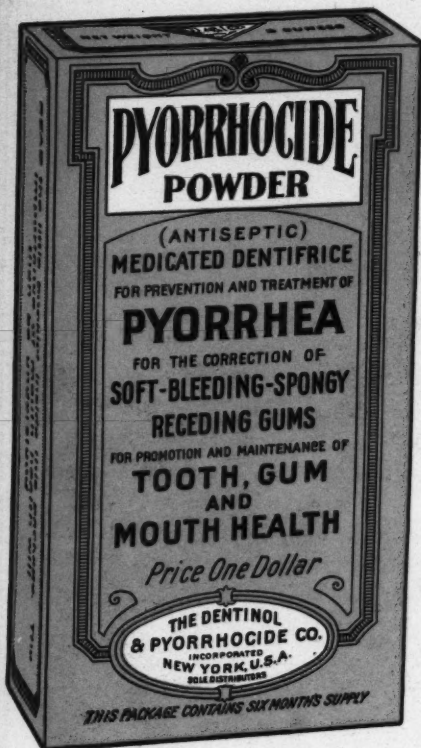
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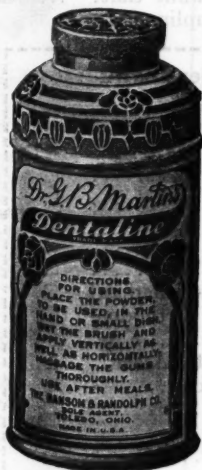
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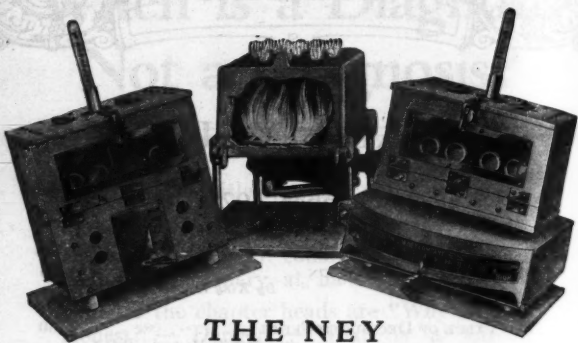
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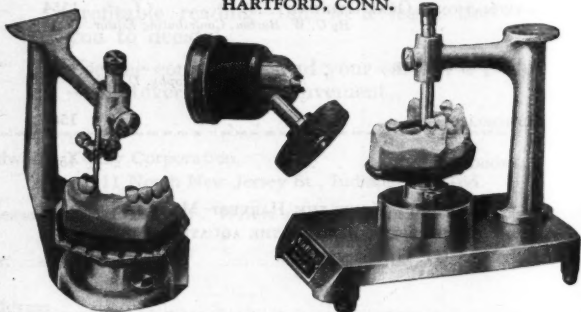
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OCTOBER, 1923

VOL. XIII, No. 10

The Brave Man's Prayer

Reprinted from October 1913 ORAL HYGIENE.

O Powers that be, make me sufficient to my own occasions.

Teach me to know and to observe the rules of the game.

Give me to mind my own business at all times and to lose no good opportunity of holding my tongue.

Help me not to cry for the moon, or over spilled milk.

Grant me neither to proffer nor to welcome cheap praise; to distinguish sharply between sentiment and sentimentality, cleaving to the one and despising the other.

When it is appointed for me to suffer, let me, so far as may humbly be possible, take example from the dear well-bred beasts, and go away quietly, to bear my suffering by myself.

Give me to be always a good comrade and to view the passing show with an eye constantly growing keener, a charity broadening and deepening day by day.

Help me to win, if win I may; but—and this, O Powers, especially—if I may not win, make me a good loser. Amen.

While the chief function of a business is the accumulation of wealth, the chief function of dentistry as a *profession* is service—and service is above silver and gold.

Dentistry a P

THE subject as stated elevates dentistry at once to a position of pure altruism. While the chief function of a business is the accumulation of wealth, the chief function of dentistry as a *profession* is service—and service is above silver and gold.

If the young man, who considers the profession of dentistry as a life work, has any ulterior motives such as a life of ease and wealth, he had better change his plans at once for he will meet with disappointment and reap a harvest of barren regret, but if, on the other hand, he is inspired with a real spirit of altruism, a desire to serve mankind and add something to the sum total of human knowledge and happiness, then there is no calling or profession that offers so many possibilities as dentistry.

Dentistry is as old as the hills. I wonder how many of us know where were recorded the first writings in reference to preventive dentistry? The first reference to the care and cleaning of the teeth is in the Ebers papyrus, written thirty-seven centuries before Christ and today, fifty-six centuries

later, we are talking about the same thing.

Hippocrates, who lived about 450 B. C., spoke of the prevention of disease by treating it at its origin; good gospel given centuries ago, which the profession has failed to follow; so you see the old saying "there is nothing new under the sun" is virtually proven.

Dr. E. T. Darby of Philadelphia says: "it is undoubtedly true that teeth are decaying more frequently than they did 3000 or 4000 years ago" and to prove he is correct, recites the following experience:

It was my privilege to have been in Egypt during the Franco-Prussian war, when the Frenchman who had charge of the mummy pits of Sakkarah was locked up in Paris. An old sheik, who lived in a little hut in the desert, not far from the pits, was left in charge of them during the Frenchman's absence. I asked the dragoman if he thought I would be permitted to take possession of those pits, pull out the mummies, cut the bandages from their faces, and examine their teeth.

He thought not, unless I made it a great object to the man to go away and leave me with the dead. I suggested that if we put a sovereign over each eye he would not see what I was doing. The suggestion proved a good one, and after standing about for a few moments he went to his hut and did not return.

We brought out mummy after mummy, scores of them, cut the bandages from the heads and exam-

y a Profession

By King S. Perry, D.D.S.,
Pittsburgh, Pa.

ined the teeth. They had been embalmed after one of the most expensive methods then known to the Egyptians and the bandaging had been most beautifully done.

They had been buried for 3,000, perhaps 4000, years, and were in perfect condition as mummies. To my great surprise, I did not find a single evidence of caries. In all those examined there was but a single tooth missing, that being an inferior bicuspid."

Today the dental profession is confronted with one of the most important problems—the health, efficiency and happiness of our fellowmen.

The laity and the medical profession properly look to dentistry for the answer to the question. What can be done?

Dentistry calls for hard work and much self denial; nowhere is there a body of students more overloaded and overworked than the earnest dental student. Nowhere is there a professional man overworked more than the successful dentist. Nowhere can you find a set of men who give up so much time to their profession and the perfection of their professional attainments by attending scientific meetings as in dentistry.

Dentistry has advanced such uncanny strides during the last decade that it is

simply impossible for any one man to master it all.

As in medicine, so in dentistry, there are specialists. The consultant or specialist, in order to be in truth what he is in name, will arrive at this stage of professional development only through hard work, close application and wide experience.

The specialist who is really what the term implies, must have, as the basis of his specialty, whatever it may be, a preliminary training in general dentistry. He must also have some knowledge of the allied sciences and a broad knowledge of medicine in order to be able to take a comprehensive view of the case presented. Otherwise he, of necessity, cannot progress beyond the narrow and provincial viewpoint. He sees all of his cases and problems through the same pair of spectacles and hence must often fail to grasp the true situation, to the great detriment of his patients' best interests and the discredit of dentistry and medicine.

Some subjects may justly be entitled to be set apart for special consideration and study, such as periodontia, exodontia and orthodontia, but in entering the special field, it requires wider study and read-

ing in order to attain a reasonable degree of proficiency.

It has been said experience is a good teacher; experience, to be of any real value in dentistry, must always be coupled with judgment. It is valuable to the dentist to have seen many cases only when he has observed them carefully, treated them properly and wisely interpreted their lesson. Otherwise, this wealth of experience may but serve to confirm the practitioner in his faulty premises, preconceived opinions and questionable procedures. Shakespeare, whose wonderfully accurate observation entitles him to be heard upon almost any subject, has this to say: "Experience is by industry achieved, and perfected by the swift course of time." How very true!

Most individuals who study dentistry are poor to begin with, and the preliminary training becomes a question. The greater the preliminary qualifications the student has on his entrance into dentistry, the more he gets out of his college career.

Failure to keep abreast of progress in his profession will, in the course of time, surely have its effect in lessened interest in his patients, in habits of indolence, both mental and physical, and in continuous deterioration in the character of his work. It is always a sad sight to see a professional man gradually losing his hold upon both himself and his work.

"School days do not end the

period of study for the dentist. They serve only as an introduction and the graduate should organize at once a very definite program of study, otherwise he is certain to drop to the rear in the rapid evolution and progress of dentistry. He must first of all take several of the best dental journals, and not only take them, but read and study them carefully.

"He must buy and study the new textbooks, as they appear, and in this study he should not restrict his interests to those things that immediately apply to his practice, but should also read and study the sciences and subjects, upon which dentistry is based, for, unless he keeps up in these fundamental sciences, he will be unable to understand and profit by the advances that dentistry is going to make within his lifetime.

"He must also attend dental meetings, local, state and national—not for pleasure and good-fellowship, but chiefly to hear the scientific discussions the meetings afford.

"Twenty years ago the life of the individual was presumed to be wholly in the keeping of the physician. Today a different condition prevails, and the importance of the oral specialist is recognized more generally through a reference of patients by the former to the latter. This can have only one meaning—a co-partnership in the field of health; a dependence of one upon the other; joint responsibilities in special and particular cases, and all for

the alleviation of sickness and for disease prevention."

Familiarity upon the part of the young dentist with the biographies of the leaders of the profession, past and present with the history of dentistry and the various phases and vicissitudes through which it has passed from the earliest times to the present, will well repay him in every way for

the time and effort necessary to acquire it.

Nothing is more stimulating or helpful to the dental student than an intimate acquaintance with the great men whose names have added lustre to their chosen profession and whose accomplishments have done so much to relieve suffering and add to the sum total of human knowledge and the prolongation of human life.

New York, Aug. 18.—Consolidation of the Columbia University Dental School with the College of Dental and Oral Surgery, of New York, was announced today.

The combined institutions, to be known as the Columbia School of Dental and Oral Surgery, will begin the new year with almost 600 students, in the buildings of the old College of Dental and Oral Surgery.

The fussy dentist was examining the teeth of his patient and assuming an air of great wisdom.

"Do you ever clean your teeth?" he inquired, as he pried and poked.

"Yes," replied the patient.

"How many times a day?" pursued the dentist.

"Twice," was the answer.

"Have you had any advice before with regard to your teeth?"

"Yes, I called on a druggist last night."

"And what foolish advice did he give you?"

The exasperated patient exclaimed desperately:

"He told me to come to you!"—*Kansas City Star.*



Such a Man has No Place in the Pro-

fession

He who advises the parent to "let the 'baby teeth' alone as nothing can be done for them as they will soon come out," simply because he does not like to do children's work, is guilty of the grossest malpractice and injury to humanity.

He is perhaps causing that child to have a bad case of malocclusion and a homely profile.

He is injuring that child's looks as much as if he were to take a knife and cut off the chin or in any other manner disfigure the face. Such a man has no place in the profession.

The Value of

By FRANK MICHAEL, D. D. S.,
Port Angeles, Wash.



EVER has so much stress been laid on the care of the deciduous teeth as during the past two or three years.

Dr. Spencer, of Bennettsville, S. C., began as early as 1921 to organize classes in which he cleaned and polished each child member's teeth once a month.* In this way he was able to cut down decay to a minimum. Yet very few dentists have taken his example seriously enough to do the same thing.

Perhaps, if I advance another sound theory as to why the deciduous teeth should be cared for and saved, even up to the very day of their natural loss—one that is easily explained to the interested parent with the aid of a suitable model—then perhaps a few more members of the profession will take an active interest in this good and noble cause.

When the six year molar erupts and takes its place in the arch it plays a very important part in developing that arch. Its tendency is to move forward. If the deciduous molars have been allowed to decay and are extracted then the six year molar moves mesially enough to throw the whole jaw out of normal

*"Decay Can Be Prevented," by Robt. L. Spencer, D.D.S., p. 840, June 1923 ORAL HYGIENE.

the Deciduous Teeth

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occlusion in the majority of cases. But that is not the greatest harm done to that particular child.

Under normal conditions when the six year molar has that pushing-forward effect it does one all-important thing, and that is, it develops the arch so as to make room for the permanent teeth, and at the same time assists in forming the proper profile which a poorly developed arch will not do.

Now allow the proximal parts of the deciduous molars to decay—say for instance the distal of the first molar and the mesial of the second molar—and then what happens!

The six year molar, with its tendency to move ahead, crowds these two teeth into each other instead of pushing forward on all the teeth and developing the arch.

About 75 per cent of the people lack a properly developed lower jaw. Look about you and you can see for your self—that lack of prominence of the chin. A good way of testing as to whether the jaw has been developed sufficiently is by placing a ruler over the face by the side of the nose

extending from the orbital prominence to the chin. In a normal case the chin touches the ruler.

There is no doubt then that the deciduous teeth play a very important part in developing the chin which is a very important feature of the face. Their preservation is all-important.

The dentist of today must be more than a dentist, he must be a preacher. Prophylaxis and care of the permanent teeth and deciduous teeth should be his daily gospel. He who advises the parent to "let the 'baby teeth' alone as nothing can be done for them as they will soon come out," simply because he does not like to do children's work, is guilty of the grossest malpractice and injury to humanity.

He is perhaps causing that child to have a bad case of malocclusion and a homely profile.

He is injuring that child's looks as much as if he were to take a knife and cut off the chin or in any other manner disfigure the face. Such a man has no place in the profession.



Oral Hygiene in Mississippi

By J. F. BRUNSON, A. B., D. D. S., Meridian, Miss.

FOR a long time forward-looking dentists of Mississippi have realized the need of a statewide educational mouth hygiene campaign, along with such clinical and reparative work as the dentists and health workers under all circumstances are able to do. This need applies more particularly of course to the poorer classes of children, but all classes among us need an awakening on the subject.

The dentists of many counties and communities have already done noteworthy service of this character, but, as a whole, we have merely begun the task.

The day of a awakening throughout the State, however, seems now to be dawning, when we shall all not only see the need, but shall also lay hold of the task with a willingness and determination of heart and hand commensurate with the actual needs of the hour.

Educational Campaign of the Summer of 1923

Miss Bowden Hudson, as is known to all the dentists of the State, was called to the task of directing this work in the beginning of the present year. Subsequent develop-

ments have proved the wisdom of this selection.

The steps leading up to the present arrangement with the State Board of health, whereby Miss Hudson was put on the field, need not be rehearsed here.

It is regrettable that she was not on the field at the opening of our schools last session.

After spending a few weeks picking up the threads of a complicated new task, our Supervisor of Mouth Hygiene had only time to visit a few counties and municipalities, before the schools closed. Nothing but favorable reports came from the brief Spring campaign wherever she went, although the task was new and the way uncharted.

The schools having closed, and access to the hordes of school children of the State being for the time impracticable, the task then that seemed immediately at hand for Miss Hudson was an educational campaign, more particularly among the teachers of the State, with the hope and assurance that the teachers might carry our especial message to the school children in every nook and corner of Mississippi, when the schools open again.

Beginning with the State

Teacher's Meeting in Meridian, where signal courtesy was shown her, the Summer educational campaign was launched.

Her message was carried through heat and rain to thousands of teachers in the Summer Normals and to various meetings of club women and girls of the State.

We have abundant assurance that seed was sown on good ground to bring forth fruit in the coming days of the long future.

What shall the harvest be? In large part, the dentists of the State must help answer.

Plans for the Coming School Session

It is earnestly desired and hoped that worthwhile mouth hygiene work shall be done in every school and every community of every county in the State this year.

As we, who are trying to help plan this work, see the problem, the ethical dentists of each county must form the effective unit, the harmonious

team, to put it across. This means a county dental society, composed of the ethical dentists, in each county where it is possible and practical.

Some of the problems will not be solved for a long time, but we should be constantly working at them. Fortunately the doors of the schools are open to us, and we know "the field is white unto harvest."

"A better Mississippi" will be a reality when we have finer men and women, finer boys and girls, physically, mentally, and morally. We can help. Will we do it?

You who have not attempted this character of work will be surprised how easy it is, when you once begin.

Definite plans of conducting a city, town or country campaign, will be gladly submitted by Miss Hudson of the Bureau of Child Welfare.

Let's not fail to avail ourselves of her splendid leadership in this important work, and let's not fail to give her the support we have promised.





The Survival of the Sensible

IF the dentist is certain of one thing in this life, it is that the man who neglects his teeth is going to have trouble. And if he is certain of another thing, it is that it is almost impossible to persuade that man that he is going to have trouble. The so-called human race is not sensible in the main; it believes what it wants to believe, not what logic and common sense say is true. And so a large number of that race die every year, from causes which were plain for them to see if they had only opened their eyes and looked at them.

People are probably more careless in health matters than in anything else. They take chances with disease—go without their rubbers, use common drinking cups, shun tooth brushes, and either laugh or curse at the regulations of the Board of Health. In the end, of course, all the careless ones will die out. If Mr. Darwin's theories are correct the day will come when only the sensible ones will have survived.

But that is a million years or so in the future—too far ahead to interest even the most optimistic of us.

What can we do about it? Of course we'd like to see everyone get sensible at once. But the best we can do is to

persuade a few of the careless ones, by precept and example, to change their habits. The careless ones won't like it—they never do like to be told what's good for them, but some of it may sink in.

The serious part of it is that 750,000 people actually do die of preventable disease every year in the United States. And they die because of ignorance or carelessness, on their own part or on that of their neighbors or of the community in which they live. In our immense army during the war the yearly death rate from typhoid was 23; the rate for the country was 10,000. Our homes should be at least as sanitary as a camp.

The American Red Cross wants to make our homes sanitary. Through co-operation with other health agencies, through its public health nurses and its courses in first aid, home hygiene and care of the sick, and dietetics, it is trying to combat some of the ignorance and carelessness that causes such an enormous loss of life. That it will be successful, no one who has seen the results already obtained can doubt. But there is a condition. It must have the unqualified support of the American people. It had it during the war, and everyone knows what it did. If it has

it in peace, the result will be as striking.

To obtain the support of the people, the Red Cross holds its Roll Call every year from Armistice Day to Thanksgiving. The Roll Call isn't a campaign or a drive; it is simply the time set for everyone to renew his membership for the following year. Those careless and ignorant ones will not support it because they do not realize the worth of its efforts. It is up to those who do know therefore not only to join, but to urge the others to join.

And if you get behind the Red Cross you are getting behind, not only the public health work, you are aiding the disabled ex-service men. The Red Cross spent \$8,000,000 in this work last year. You are bringing food and clothing and shelter to the victims of disaster. There were 72 disasters in the United States last year, in which the Red Cross spent nearly a million and a half dollars.

From the 11th to the 29th of November. Don't forget these dates.

Cuba.

Cuba Odontologica reprints correspondence relating to the dental examination of school children, organized by the Odontological Section of the Sixth Latin-American Medical Congress. This examination was to be held in the form of a competition, the children with the best cared-for mouths to receive prizes in the shape of toys and books at the total value of \$200. Toothbrushes,

etc., were also to be distributed; the committee figured on 8000 children entering the contest.

India.

From India we learn of the publication, by an educated Indian dentist, of a booklet in English on the care of the teeth, of which 10,000 copies have been set aside for free distribution.



Pedodontia

PHILIP R. THOMAS, D. D. S., Minneapolis Minn.

Contributing Editor

WITH the hope that the preparation and publishing of the experiences of the editor of this department in a practice limited to Pedodontia, or children's dentistry, may stimulate others to limit their practices to this most important and interesting branch of dentistry, these articles are offered to the dental profession.

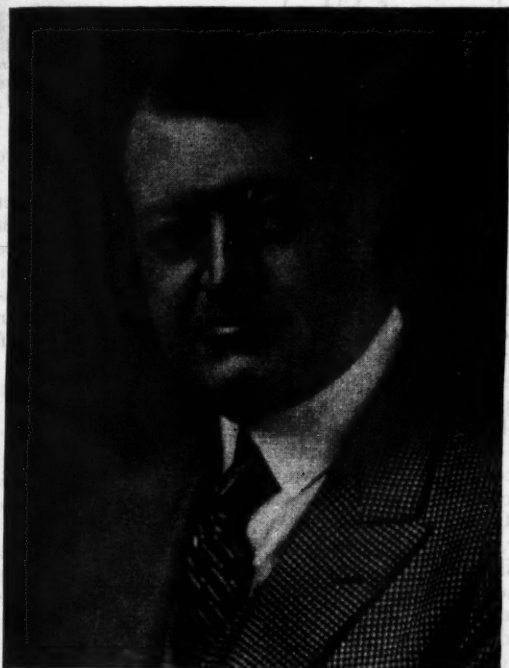
The writer makes no claims for originality in anything offered except in dignifying the work by a proper title, Pedodontia, which title was offered for acceptance at the National Dental meeting at New Orleans. Taking up this work

after seventeen years in general dental practice with all its cares and worries and then establishing a practice devoted entirely to constructively helping little men and women to develop better hopes for good health through better mouth conditions seems to the writer to be something well worth while.

To undertake this work without a well defined love for children and an earnest desire to help them would be utterly folly. The child intuitively knows and recognizes a friend and there is nothing more to be wished for in life than the love, friendship and respect of little children. Helping them



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Dr. Philip R. Thomas, of Minneapolis, New Editor
of Pedodontia Department

is the pedodontist's daily privilege.

However all members of the dental profession cannot be limited in their efforts for the welfare of humanity to work for children—but to all comes a share of this work and it must be taken care of in the best possible way—not from the standpoint of getting rid of the children as soon as

possible but from that of doing honestly intelligently and well, what is necessary for the child's present and future well-being.

Let us then proceed to a consideration of some of the problems met with in caring for the mouth of the child in its relation to the health and development of the child, for

its relationship is intimate and of great importance.

The discussion of child welfare in the dental office may, for our purpose, be divided into problems to be met and solved.

Problem 1.—The reception of the child in the dental office by an assistant at which time a card is filled out showing name of patient, age, previous experience with dentists, surgeons, barbers. Before any service is begun a discussion with mother relative to child's disposition, health, etc., is of value to the operator. Children can thus be placed in proper classification as to psychology before being put in the chair. They naturally fall into one of the following classifications:

1. Children without sense of fear, friendly, and making up easily with strangers. Not apprehensive of pain. Called by name the child is easily induced to sit in chair, and attention is easily distracted from dental operation by conversation, stories, etc.

2. Children made fearful and timid by home training. Includes children fearful through listening to discussion of ordeals in dental chair, by threats about darkness, by punishment by being put in closets, by being threatened with punishment by policemen, or the "bogey man," and who have been taught to have nothing to do with strangers.

3. Children made fearful by previous unpleasant treat-

ment by surgeons or physicians, viz.:

Forcible administration of anesthetics. Operations for tonsillectomy, adenoidectomy, circumcision, lancing ear abscesses. Operation for correction of cleft palate.

4. Children who have been made fearful through talks about dentistry by other children, sometimes in their own home, by seeing cartoons in daily papers dealing with exaggerated dental operations, supposedly of a comic character.

5. Children made fearful by toothache, loss of sleep, tender teeth, and ill treatment in dental office.

6. Children naturally nervous and timid through illness and seclusion. Rachitic and anaemic types with little physical stamina.

7. Children utterly lacking in proper home discipline, spoiled by indulgence and never under parental control.

Before attempting to explain the psychology of each class of patients and making suggestions relative to their handling, a few general facts learned through experience might be of interest regarding the outfitting of the dental office for this type of work.

The operating room should be a sunny room. With the dental chair placed before the window, settee for the convenience of the child's attendant may be placed in the operating room. The child is more comfortable mentally if the mother or nurse is seated in the room, and if the patient

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is tractable it is often advantageous to have other children observe what is being done to the patient. In many cases the child watching the operations is anxious to take his or her turn in the chair, and a timid child's fears are greatly allayed by seeing another

child precede him in the dental chair.

As little equipment as possible should be used and shown. In fact it may be limited to a child's dental chair, with porcelain seat, back, arms, and head rest, all easily wiped off with 70 per cent alcohol after each patient, electric engine of as quiet a type as can be found—bracket type preferred—





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single bowl cuspidor, white marble shelves to hold small cabinets out of children's reach, a glass bracket table attached to chair, a spray bottle outfit, and, with oper-

ating and filling materials, the equipment is completed by installing some type of operating light.

Children's minds and fingers are active and the less equip-

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ment there is to play with the better for all concerned. The X-ray outfit, extracting instruments and the gas machine are best used apart from the operating room proper.

A play room, where space is available, should be provided where children may play and interest themselves while waiting. Cut-outs of birds, animals, and insects may be

pasted on the walls, and with a few simple toys and child's furniture, the child feels perfectly at home and awaits his turn in the chair without fear. A few playthings in any dental office for the child patients helps greatly to allay their fear.

Sterilization must be thorough and complete, and neglected in no detail. For this purpose several small porcelain instrument trays may be provided and with several sets of mirrors, explorers, excavators etc., a sterilized outfit for each patient is provided without loss of time. Thorough scrubbing of the hands is necessary and the use of 70 per cent alcohol on the hands is advised. Great care is necessary to prevent the spread from one patient to another of the infectious diseases of childhood. The chair and bracket-table then having been wiped off with 70 per cent alcohol, a sterile set of instruments placed on the table, the patient's card is looked over so that the operator may be able to call the child by name when he is first seen. The card filled out by the nurse in the reception room states the age of the patient.

As he enters the door, one readily sees that he is at ease and is apparently a normal child. After a few well-chosen words of greeting he is addressed by name, asked his age, and, following a few words of praise about his size or appearance, he is invited to sit in the

chair, which he does readily enough.

A clean towel is placed in position, and his examination begins.

With patients of this type anything can easily be accomplished. The first procedure then is a hand prophylaxis with an orange-wood stick; this is the first operation on all patients of all types and ages. Hand prophylaxis carefully done demonstrates to the patient that the teeth can be worked on without pain and gives the operator ample time to become acquainted with and study the patient. This is also the logical time to impress on the mother the value of prophylaxis as a health measure, and also a proper time to begin the mother's education.

The prophylactic operation having been disposed of, the patient is dismissed and a new appointment made.

At no time during the child's visit has any mention been made regarding pain. He is not asked: "Does it hurt?" He is treated as if the work was the ordinary, everyday matter-of-course thing for him to have done. After the child is in the chair and under control, at no time should the operator's tone of voice be raised, and in no way should evidence of surprise or loss of temper be shown by the operator at anything which may occur. An acquaintance with the child having been established at the first visit, he usually wants to come back.

If, at the second appointment it is necessary to use the dental engine, no explanation need be made. A sharp bur is used with the utmost care, so as not to produce pain by heating the tooth. If an extraction is indicated it is under all conditions—except that of the removal of a loose tooth without root—done under nitrous oxide and oxygen anesthetic, and this should never be done at the first appointment. An understanding in a general way of the methods to be used is given the patient if he is old enough to comprehend.

He is told that he will sit in a chair, have a little cap placed over his nose, and that he must sit still, and after having a funny dream he will find that he has blown the tooth out and there will be no more trouble.

Telling the truth to children is the best way to handle them. Under no circumstances deceive them. Put yourself in their place.

All of the foregoing relative to prophylaxis, use of engine and extracting, applies to all types of children. The exercise of tact, good nature, patience, and experience is necessary in the care of children, and particularly in the dental office. Parents should be informed that work for children, as a matter of fairness to the dentist, must be done on a time basis, whether for education or actual dental work done, and most parents easily see the justice of fees

for children's work done on this basis.

Class 2. Children made fearful and nervous by home training, need to be handled carefully. Their confidence must be gained by well-directed conversation, depending on the age. Often it is advantageous to make an appointment at about the time a friend of theirs, who is accustomed to dental care, is in the chair. Gradually overcoming their timidity, it is possible in most cases to induce them to get into the chair for an examination. Every step is explained carefully as the patient gains confidence. It would ordinarily be unwise to attempt the excavation of a cavity with a bur, or to make any extraction at the first sitting. If the patient will submit to a prophylaxis done by hand, and a confidential relationship is established the problem of their care is solved.

Personality of the operator plays a large part in the matter. A friendly, earnest manner of discussion together with a smiling, pleasant face, will produce results. "If at first you don't succeed, try, try again," is an excellent maxim to keep in mind.

Class 3. Children made fearful by previous unpleasant treatment by surgeon or physician must be convinced that nothing about the office looks like a hospital operating room, and that they will not be made to take an anesthetic or be put to sleep.

It often is necessary to

remove operating coat or gown so that the child may not have an unpleasant memory of a surgeon in an operating gown brought to mind. Children, except very young babies, should never forcibly be held in the chair. The parent standing at the patient's left but permitting the operator to do the talking, can help greatly at times. If it is absolutely necessary at that time to do something essential for the patient's comfort, then there is no other method to be used other than forcibly holding the child in the chair. The temperament and attitude of the operator determines in all cases the success of the treatment.

The operator should always bear in mind that someone else may be better able to to handle the particular case than he. Possibly an improvement in the operator's disposition in his attitude toward child patients might be of value. Anything which will give the child confidence such as permitting the child to hold a doll or toy while being worked on will often help. With patience and judgment, all cases of this type can be handled.

Class 4. Children who are made fearful through hearing other children talk about the dentist, and by seeing movies, advertising matter and cartoons tending to give an impression of torture in the dental office. While such propaganda is amusing to the adult, who sees the ludicrous

side of the picture, the impression on the mind of the child is an entirely different matter and may be lasting.

The child believes what he hears and sees. The child old enough to read who sees a boy writing "liar" under a "painless dentist" sign, gets an entirely different impression from that intended by the artist. Dentistry for children can be made painless under proper handling and operating as has been demonstrated thousands of times. Pictures as above described should be frowned on by the profession as well as by parents. In fact, they should be tolerated in about the same measures as is the term "tooth carpenter," the delight of newspapers. A careful demonstration in the office that dentistry for children is painless is the best education for children in Class 4.

Class 5. Children made fearful by toothache, tender teeth, and maltreatment in the dental office. To deliberately tell a child that it will not be hurt and then inflict pain through the extraction of a tooth with unabsorbed roots, simply because the operator is stronger than the patient and stands in no fear of proper punishment is—well, I won't tell you what I think about it for it wouldn't look well in print.

Such an operation takes away all the confidence the child has in adults, and particularly, doctors and dentists, and requires long experience to

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the contrary for its eradication. No child should have extractions done without an anesthetic. The adult patient would not tolerate such a thing, so why pick on a patient who cannot defend himself? Talk over the situation with the patient. Put a little perfume on the inhaler to disguise any odor of rubber or nitrous oxide and do exactly what is promised.

Do not extract one tooth painlessly, and, then by brute force, hold the patient down and painfully extract one or two more. If this is done, a perfectly good patient is ruined by brutality. When excavating cavities in deciduous teeth, the sharp bur is as necessary as in a permanent tooth. To avoid heating, luke-warm water may be run on the bur while excavating. Excavating deciduous teeth should be painless in 99 per cent of the cases.

Class 6. Children naturally timid through illness and seclusion. The child who does not play with other children misses much good training. Children who through illness have lost their "nerve" should be treated with especial kindness. With the knowledge that the patient is not normal, through misfortune or sickness, appointments should be shortened and what is done should be done as quickly as possible and the child not tired out. Natural sympathy should easily direct the operator's efforts. The Golden Rule, "Do unto others as you would that they should do

unto you" is particularly applicable with children of Class 6.

Class 7. Children entirely unmanageable at home through indulgence and lack of discipline are of all children most to be pitied because the fault lies not with them but with their parents.

About 98 per cent of children of Class 7 can be worked for if the parents are eliminated from the situation by absence from the operating room. Experience with children of this kind teaches the operator that when kindness, patience, sympathy, firmness and persuasion fail to accomplish results, the patient had better be dismissed.

As examples of what may sometimes be accomplished, two boys about seven years old appeared for dental care.

It was readily apparent that the parents were at fault and particularly the mothers, who, through coddling, were rapidly spoiling two bright boys. The subject was brought up in a tactful way and the suggestion was made that it was the father's duty to supervise the training of the boys. Boxing gloves were prescribed and the suggestion made that the father put on the gloves, get down on his knees, and give and take punishment with the boys. The advice was followed and after six months of closer association with father no one could ask for more manly, self-reliant, fine patients than were the two boys. The whining and peevishness had all disappeared.

"Why I Have Changed Mind

Editor ORAL HYGIENE:



AM mailing you this letter that I received from the secretary of _____

Dental Society. I would like to have this printed so that some other fellows that feel as I did toward the American Dental Association may read it. Since I received this letter I have changed my mind about the Association and I believe that it will make other fellows feel the same way.

Dear Doctor:

I received your letter the day I left for the holidays and the few days I have been back have been busy ones.

I was glad to have you express your opinion frankly and wish every one would do likewise regardless of how they feel.

I did not become offended by your letter and may say that I want you to write just as you feel and I assure you that I shall not feel hurt, and on the other hand I don't want you to feel hurt at what you are going to read before you finish this.

The nine dollars that are paid by the members of our organization as dues are distributed thus: Three is for district dues, used for expenses of that branch of the State Association in paying the expenses of men that come and give us advantage of their special skill in which they have made a special study and teach us how to do likewise; three dollars is used by the State Association for like purposes, however, sometimes this is not sufficient to defray all such expenses; one dollar is for maintainance of the National Research Institute where all new theories and ideas are thoroughly tested by actual experiments before

given out to the profession that we may know that they are safe rather than to try such cases in our own offices and have failures and suits for damages on our hands, and thousands of other things; two dollars is for the National Association which is the father of the State and District societies and also includes subscription to the *Journal* which no dentist should be without.

You are not being held up; every member pays the same amount and I know that it takes every cent that is collected for these expenses. No officer receives one cent for his time and trouble but, on the contrary; often advances money for expenses when the members delay paying their dues. This I know as I have had it to do since I assumed the office I now hold and as I know Dr. _____ is doing for the State Association.

You say you "don't give a rap for the National and District societies,"—let us see what they have done for you.

How would you like to go back ten or fifteen years and practice dentistry as it was practiced then? That is where you would be if it were not for these societies? Are you practicing now the same as you were when you were just graduated? I am not. If I were I would be entirely out of date and couldn't make a living at my profession, and neither could you. You know that we could not have advantage of all the modern methods and knowledge if it were not for the meetings of the societies. Casting was not taught when I was in school; I don't know whether it was in your time or not.

I learned by attending society meetings, in fact I learned all I now know, except the foundation which I got in school, at these meetings and by reading the *Journal*.

I couldn't afford to go to St. Louis or Chicago or New York every year and take a course in these various things but I could afford to pay nine

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dollars per year to have them brought to me.

How did you learn about focal infection if it was not from some paper or clinic at some state or national meeting?

How did you know of the best filling materials and that 95 per cent of the root canal fillings are imperfect if it didn't come from experiments of the National Research Institute? The laws under which you are now enjoying protection from quacks and advertisers and the old-time street fakir were passed by efforts of the societies.

Some day you may be allowed to register for practice in any state in the United States through reciprocity and this will be due to efforts of the Association.

Don't you think you would feel a little cheap should you ever enjoy this privilege and then have to say that it didn't cost you anything, that you let the other fellow pay for it—but you had the same rights he does?

Then suppose it was necessary for you to be a member of your State and National Associations, as is the case now, before you could enjoy this privilege would you feel right to join just for this privilege? Suppose it was necessary for you to have been a member for three or five years previous to your application? What would you say then?

If you haven't been receiving your *Journal* why haven't you reported it? It would have cost you only two cents to have written either your district, state or national secretary of the fact and I know it would have been attended to. Are you sure it hasn't been coming or are you tossing it aside and forgetting about it or not knowing what it is? If you will spend about ten minutes a day reading this *Journal* you will see that the money you pay for dues is not wasted.

I am indeed sorry that Dr. — has not received any benefits from his membership. I am sure that if he has a membership card that his name is on

the list, and I am sure that he had a notice of our last district meeting as he was called by long distance telephone and asked that you and he come.

Listen, Doctor, you belong to the Masonic lodge and have gone as far as you are privileged to go and also have joined the Mystic Shrine. Suppose you didn't care for anything but the Shrine can you say that you "don't give a rap" for the Consistory and the Blue Lodge and only belong to the Shrine? Each is dependent upon the other. The Blue Lodge could not exist without the Grand Lodge and vice versa.

The dental organizations are what protect you and enable you to better serve your patients and to educate them to dental needs that you may provide for yourself and those depending upon you, yet you say you don't give a rap for them.

These different societies will still exist even though some of us fail to help support them. Do you want your friends to pay the expense of protecting you with our laws and keep you informed in all the latest methods of working in your profession, or do you want to stand your part of it? If every dentist would help support these societies it wouldn't be so heavy on a few of us.

You wouldn't live in a state that didn't have a dental society any more than you would live in a town without a church. Surely we can stand nine dollars per year, less than one dollar per month, for our professional protection and education when we are paying over twelve per cent of all we make for our civil laws and protection.

Every annual meeting of all these societies has a business session in which the business is transacted and officers elected. Have you ever attended one of these meetings to see that the business was transacted as it should be? You have as much voice as any member. Perhaps you don't care anything for that part of it but

think it ought to be run differently.

Now, Doctor, as you said in your letter, I mean nothing personal in this letter and I would talk to you just the same as I am writing only I could say more in less time, and I know you are broad enough to feel as I do about it.

The only trouble with you is that you just haven't looked at this thing in the right light. No one is trying to skin you, we all pay the same amount of dues and any of us have

the right to ask how it is spent.

These organizations are for your protection as well as mine or any other man in this State or any other state. Nothing can stand alone.

Suppose all our states were to withdraw from the Union and have no national government; how long do you suppose any of them would last?

If you can find time I would be glad to hear from you again and see how you feel on the subject now.

Your friend,

Pipes and Sharp Teeth Blamed as Cancer Spreads

London—The death rate from cancer in Great Britain has increased three-fold in the past two generations, although in this space of time there has been a substantial reduction in the number of deaths from tuberculosis and other diseases, according to a report just issued by the Ministry of Health.

The committee recently appointed to inquire into the cancer scourge confesses complete ignorance as to the cause of the disease or a cure for it, but deprecates the use of quack remedies, and dwells on the fact that chronic irritation is a contributory cause.

It advises the reduction of sharp tooth edges and the replacement of badly fitting dental work, and also a change in the habit of pipe smoking if this produces a sore spot on the lip or tongue.

If a person's clothing causes any irritation it should be altered, the report says.



The Mucin Film Test Again

By GLENN F. BOWMAN, D. D. S., Pittsburgh, Pa.

THE writer is very happy to be given this opportunity to reply to Dr. Sarrazin's article on the above subject in the August issue of ORAL HYGIENE.

In fairness to the readers of ORAL HYGIENE, it should at once be stated that the writer has for some time been deeply interested in the development of a liquid mucin solvent and his views on the subject may therefore not be entirely unbiased. He also takes the liberty of observing that Dr. Sarrazin has for a number of years been similarly interested in tooth powders, tapes and brushes, the use of which he suggests in his article.

The better part of Dr. Sarrazin's article is de-

voted to repetition of the circumstances relating to "The Emetin Error." It is difficult to understand why the doctor should thus go out of his way to point out an error which has nothing to do with dentifrices. Why "pick on" poor Emetin when the history of dental cleaners exhibits a long and continuous procession of errors and disappointments, so much so that dentists, with regard to dentifrices, quite naturally

have become a profession of ultra-skeptics, not easily hoodwinked by commercial sophistry. Yes, history repeats itself—both as to errors and successes. At the end of each long series of errors, science has a habit of finally recording a success, be it small or great, partial or complete. And history is replete with

A reply to Dr. Sarrazin's article in August ORAL HYGIENE

In fairness to the readers of ORAL HYGIENE, it should at once be stated that the writer has for some time been deeply interested in the development of a liquid mucin solvent and his views on the subject may therefore not be entirely unbiased. He also takes the liberty of observing that Dr. Sarrazin has for a number of years been similarly interested in tooth powders, tapes and brushes, the use of which he suggests in his article.

anecdotes about the skeptics who derided discoveries which later have become tremendously successful. So the thoughtful student of history, dental and otherwise, continues to keep his mind open, ever willing to impartially test and examine the new things which come to him backed by sound reasoning or with the endorsement of men worthy of his confidence.

Qualitative Test

As Dr. Sarrazin writes only vaguely on the subject of clinical tests, his condemnation of the mucin solvent apparently is based on the following test devised by him:

Shake an extracted tooth for two minutes or longer, in a test tube containing the mucin solvent solution. Rinse thoroughly in pure water, immerse for thirty seconds in Iodo-Glycerole; rinse off the Iodo-Glycerole with pure water and *observe the stains taken.*

It should be noted that after softening or dissolving the mucin, he did not use a brush to remove the mucin from the tooth, while in his tests with powder, brush was applied. As a consequence he "discovered" that the tooth shaken in the mucin solvent took the stain, while no stains were observed after the cleaning with powder and brush. What the doctor really did was to conduct a qualitative test with the solvent, and instead, therefore, of looking at the tooth for results, he should have analyzed the composition of the solvent, in which the

tooth had been shaken, to determine whether or not it contained mucin dissolved from the tooth. For no matter how efficient a cleaning, this would not prove that some of the mucin might not have been removed. All of which merely reminds us that a qualitative test is not a quantitative test, an elementary fact which Dr. Sarrazin evidently overlooks.

Dissolving is not Removing

One might remove varnish from a table by means of sandpaper, but it is much easier to use a so-called "varnish remover," the function of which is to soften or dissolve the varnish but not actually to remove it. The removal has to be effected by scraping or by some other mechanical means.

The dry cleaner uses naphtha as a solvent for grease, but he also employs the most efficient mechanical rubbing or agitation permissible without tearing or wearing the clothes unduly. His success depends to a large extent upon the effectiveness of the mechanical form of agitation employed, just as the success of the first washing machine was dependent on successfully substituting mechanical motion for hand rubbing. A preparation may be an efficient solvent for mucin, yet fail, unaided by brushing, to remove the mucin film from the teeth.

Dissolving mucin and removing mucin are, in fact, two different operations. Both are necessary, for by first dissolv-

ing the mucin, the otherwise extremely difficult operation of removing it is greatly facilitated, especially from the approximal faces and from other hard to reach areas of the teeth, which are more or less neglected by the brush in the hands of the average individual.

Advantage of Solvent

Since, a year or two ago, the discovery of a mucin solvent was first announced, it has never been claimed that, alone and unaccompanied by brushing, it would effectively remove mucin plaque from teeth. On the contrary, it has been clearly and simply stated that it "dissolves mucin" and the equally plain and simple directions have been to accompany its use with brushing. These explicit directions have evidently been ignored by Dr. Sarrazin, for while his test on the powder is accompanied by brushing and the application of tape, he uses the mucin solvent contrary to instructions and without brush and tape.

One may remove paint from wood with sandpaper; or one may rub clothes clean with sand and water. But, thanks to chemistry, these are not the methods now used for accomplishing the desired results. Likewise, almost any abrasive powder may be used for removing mucin film from teeth. But in applying abrasives in paste or powder form, two main disadvantages are experienced. First, the degree

of skill required is so great that few but professional men can and will perform the operation successfully. The use of this method by the average individual usually is so highly inefficient as to have no effect whatever on caries and calculus. Secondly, abrasion of the enamel and injury to the gums will inevitably follow. It is begging the question to say that a powder is so fine, or so soft, that it will not abrade the enamel. If too fine and soft, it is also inefficient—a good brushing with water alone would serve the purpose equally well or better. And in proportion as the mucin-removing properties improve with coarseness and hardness of the powder base, so does also the abrasive effect increase. It is not sufficient that the powder should be softer than the tooth enamel, for ordinary sole leather will wear out concrete pavements, and a glance at the arms of the familiar office chair reveals unmistakable evidences of wear from the rubbing of soft hands and sleeves.

The liquid solvent partakes of neither of the disadvantages mentioned. It requires for thorough cleaning, less time and infinitely less skill, than an abrasive powder or paste. Hence its efficiency in the hands of the average individual. To prove or disprove which, clinical tests furnish the most eloquent answer.

Clinical Tests

For thousands of years, man has been using fine abrasives

in paste or powder form, to clean his teeth. In recent years we have refined the abrasives, adding various chemicals to them, but in spite of untold millions of dollars being spent annually for dentifrices, caries, tartar and mouth diseases which these dentifrices are intended to prevent, are perhaps more prevalent than ever, being visited alike on those who do and don't use these cleaners, excepting only the professional men and few individuals who exercise extraordinary skill and care in brushing and application of tape and floss.

That an efficient mucin solvent is capable of improving this condition just in proportion as the public can be persuaded to use such a solvent for brushing their teeth, is easily demonstrated. Select a number of patients with similar dentitions and mouth conditions, including at least two who show rapid calculus formation. Give each thorough prophylaxis treatment, put half on mucin solvent liquid, the others on any powder or paste or on several varieties. Insist that your mucin solvent patients hold mucin solvent in their mouths for a full minute by the clock before brushing. Lay down identical technique in brushing for each class in the test; if one class is given floss or tape, in fairness let the other class use it. Stain the teeth with Iodo-Glycerole, examine areas and depths or resultant stains in both classes; then go further

and compare the respective health of the mouths of the mucin solvent cases versus the powder and paste mouths. Then go still further and critically compare the general mouth appearance of the solvent and the powder and paste mouths. For the color, tone, thinness, etc., of the gingival margins are of equal importance in indicating the benefits the patient is deriving from the use of abrasives on the one hand and the mucin solvent on the other.

Observe the relative amount of calculus in the calculus cases; if some of the cases selected for mucin solvent tests had sensitive areas, were unable to eat acid fruits, or marmalades, etc., ask them if they notice any change. You won't have to do much questioning. If the patients once get a chance at the mucin solvent, they'll soon be volunteering favorable comment.

Only a very small percentage of the population can afford to have prophylactic treatments at regular intervals. Even if they could, the whole dental profession could not find time to render the service. We've been prescribing powders and pastes for quite some time now. It is high time to ask if the results in preventive dentistry justify the \$40,000,000 or more the American public is spending for these annually.

One may, if one cares, also conduct the staining tests on extracted teeth described by Dr. Sarrazin, but, to be fair, the application of solvent must

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be followed by brushing, as pointed out in the foregoing. Teeth so treated with solvent will show no stain on the enamel surfaces but this test has no significance for people cannot remove their teeth from their mouths, one by one, for cleaning, and the real problem in oral hygiene, is to reach and clean the spaces between teeth, the hidden cracks and crevices approximately as efficiently as the smooth visible surfaces.

Confusing 'Dissolving' with 'Preventing'

In closing, Dr. Sarrazin makes the following statement: "A solvent to mucin in saliva does not prevent mucin films or plaques on teeth, because that solvent is not kept in the mouth all the time, and during its absence, mucin inspissates (or thickens) into film." Thus, by innuendo, does the Doctor appear to give the impression that the claim has been made for the mucin solvent that it *prevents* the formation of mucin films or plaques—a most preposterous suggestion. As the mucin plaque undoubtedly

serves the purpose of protecting tooth enamel against acid foods, it is unbelievable that any intelligent individual would, if he could, attempt to *prevent* mucin film from forming on the teeth. Certainly, there has been no such claim made for the mucin solvent, its purpose being simply to "dissolve mucin," thus facilitating the removal, at intervals, say twice daily, of the mucin plaques, which should be sufficient to prevent tartar from accumulating and also materially to diminish the number of bacterial plaques.

Dr. Sarrazin's point in respect to "preventing" mucin film is entirely in line with the following reasoning of a certain gentleman in regard to the mucin solvent. "The stuff is no good—I have tried it and I find it does not remove tartar." This gentleman evidently thought that the mucin solvent which, when properly used, has a decidedly inhibiting effect on tartar, also ought to remove tartar, and unwittingly condemned it for not possessing a virtue which has never been claimed for it.



International Oral Hygiene

Translated and Briefed by C. W. BARTON, Fort Wayne, Ind.

England.

At a meeting of the Society of Medical Officers of Health recently held in London, the report of the Committee appointed last year on the prevention of decay of the teeth was brought up by Dr. Wheatley and considered.

A dental caries leaflet for the use of parents was discussed and approved. The leaflet explains the elementary notions about the origin of decay, and devotes special attention to the choice of foodstuffs for children with a view to the prevention of decay and the development of good habits—of mastication.

The London Times recently carried an article entitled "Health and Work." Thanks to the energy of the Industrial Welfare Society "and the wisdom of many great leaders of industry," both employers and employees are being enlightened as to the importance of oral hygiene for the general health and efficiency.

Within the last year or two "works dentists" have made their appearance in certain factories and begun operations

on a small scale. In no case, as far as the writer is aware, has this innovation been abandoned once it had been instituted. Its value is too quickly apparent for that.

There is now a proposal on foot that every large employer be compelled to make provision for the dental care of his workers and that groups of small employers should be placed, collectively, under a similar obligation. This, however, is the wrong way to go about the matter. In all questions of health, conviction must precede action and the fact is that neither workmen nor employers are convinced. Any legislative measures at present would, therefore, be discounted in advance and defeated by one means or another.

Switzerland.

The community of Herisau (Appenzell A.-Rh.) has introduced school dental hygiene in its public school from the beginning of the new school term.

In Basel, last year the

Education Department distributed 25,000 copies of a pamphlet entitled "What Must Each of Us Know About Our Teeth?" written by Professor Jessen.

France.

Regnart, in *La Presse Dentaire*, announces the publication of a little booklet, written in English, by H. W. Ferguson, translated into French by Chambrillon, which tells the children all about the teeth; their importance, their care; it is illustrated with cartoons and part of the lessons and recommendations are written in verse, in the form of nursery rhymes to be sung to popular tunes. Regnart thinks that the book, though meant for children only, should be widely distributed also to parents and teachers whose ignorance in matters of hygiene, especially of oral hygiene, is frequently appalling, "in all classes of society." He hopes that this little book "will be one of the contributing factors to making the public understand the importance of the teeth and the dentists."

Italy.

Prof. Dr. Silvio Palazzi claims, in a very lengthy article in *La Stomatologia* of April, 1923, that the question of systemic disease as a result of focal infection through the oral cavity (oral sepsis) has not been modified in any way by "the new American theory." He criticizes especially the work of Rosenow, Billings, and

others; the bibliography comprises fifty essays.

The same journal, for May, 1923, brings the titles of four papers to be read at the Twelfth Italian Stomatological Congress in Torino, during September, for the special benefit and guidance of the young confrères; one is on radicular cysts, one on radiology, one on prosthetic work, and one on pyorrhea. It would seem that they do not go in for oral hygiene over there until they are older.

Argentine.

V. Zerbino, in *Progersos Odontologicos* breaks a lance on favor of the acceptance of certain facts showing the causative effect, on infantile pathology, of the primary dentition. He supports Lésne and Binet who, with Hutinel, claim that certain pathological incidents during the first dentition are undoubtedly due to the physiological process of tooth eruption which upsets the biological equilibrium, so to speak, of the baby. Diarrhea, for instance, may be due to hyper-salivation; fever, though primarily a reaction of the nervous system, may be traced to infection of the gums. These and other symptoms, as nervousness, insomnia, coughing, eczema, convulsions, etc., must be due to disturbances caused by the dentition, "because they cease abruptly with the apparition of the tooth—may recur at each new eruption."

Australia.

In Australia, a life insurance company has printed and distributed, for the benefit of its policy holders, an excellent 16-page illustrated booklet called "Your Teeth and Your Health."

Canada.

To further the propagation of knowledge in matters of oral hygiene in the province of Ontario, says *Oral Health* (Canada), a committee has been appointed which is composed of three representatives of the Ontario Dental Society and three representatives of the Board of Directors of the Royal College of Dental Surgeons.

This committee decided that some educational work should be inaugurated forthwith, and that the daily press should be used for this purpose. A series of bulletins was planned and thirty leading newspapers selected.

The bulletins contain a clear and forcible statement of points which demonstrate the importance of dental service. Each bulletin is prepared by a member of the profession, and is placed before the committee for criticism. This criticism is at once constructive and severe. The sole object of the committee is to make each message as educational as possible. The bulletins appear on Saturday of each week.

Mexico.

The *Boletin Odontologico*

Mexicano for June, 1923, contains an editorial entitled "The Public Should Know the Relations Between Oral Infections and Systemic Diseases." The writer holds that the dentist should not allow himself to be influenced in his decision as to the operations necessary in the mouths of his patients by any consideration other than their ultimate value to the general well-being of the individual. It is the bounden duty of every dentist to make clear the importance of common-sense oral hygiene for the general health to his patients in comprehensible language at every possible opportunity.

Mexico Odontologico calls attention to the work of Dr. Ernesto A. Dam; besides a great many articles on hygiene in the daily *El Comercio* of Lima (Peru), the doctor has to his credit an 80-page booklet on oral hygiene for use in the public schools.

Scandinavia.

At the Seventh Annual Meeting of the Norwegian Odontological Society in Gottenburg, during May, according to *Odontologisk Tidskrift* Im. Ekström read a paper on the destructive effects of chocolate and candies, whereupon the meeting passed a resolution branding such condiments as utterly undesirable from a dental point of view.

A discussion following a paper by K. Elander on "Extension for Prevention" seems to have turned down completely this method.

Pages from the Diary of the Modern Dental Samuel Pepys

By SAMUEL PEPYS, Jr., D. D. S.

Dr. Pepys Attends as a Member of the House of Delegates

WHEN my state society convened, my name was proposed as a member of the House of Delegates of the American Dental Association. This is not my first experience as a delegate.

This is how it is done.

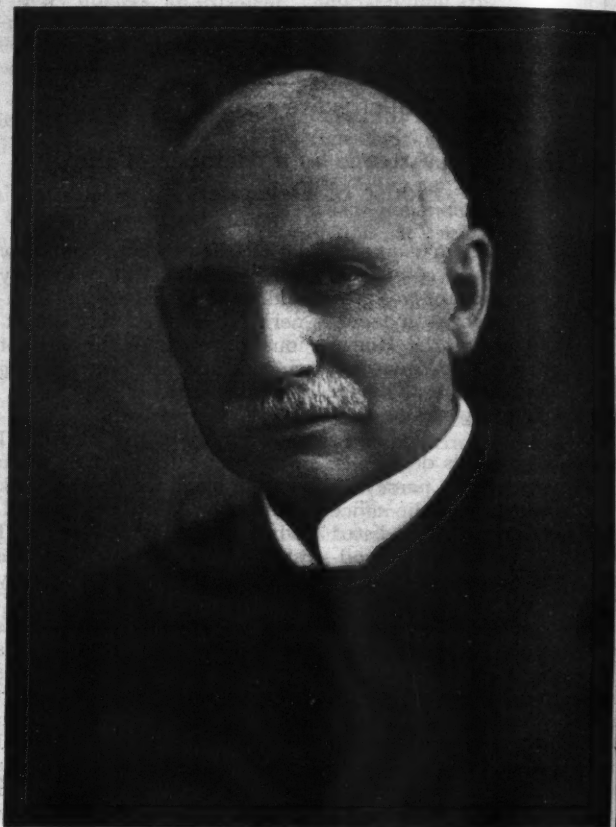
As soon as your name has been forwarded to the office of the secretary you are listed and a copy of this list is available for anyone who chooses to make use of it.

The individual who is a delegate becomes very popular insofar as an increase in his correspondence is concerned. Various sections of the country desiring the next meeting flood your mail with letters informing you of the many advantages that their particular city affords as the next place to hold the meeting. If some section of the country has a native son to be proposed for presidency, an appeal for your vote to support him is made. You also receive personal letters from a

lot of fellows whom you know only casually, but who may address you in a personal manner that is often very obnoxious for you know they are not sincere and are only looking for your vote.

Arriving at the meeting I was about to register when a chap slaps me on the back and says: "Hello, Samuel, when did you get in?" I stand in a long line with the one thought uppermost in my mind: "Do I get a room?" and he immediately proceeds to inform me that Texas would appreciate my vote as the place to hold the next convention. He departs after he has made his speech and I am about to place my name on the hotel register when I get another one of those "welcome to our city" solicitations, this time from a chap who represents Michigan, and who informs me that as Bill Giffen, the President-elect, lives there, it would be a good thing to have the meeting in his home town.

The New President-Elect



Sincerely yours
C. H. Johnson

Well, I finally register and am shown to my room, where I had my breakfast served so as to eat in peace and recover from my journey.

It was not long before there came a knock on the door and in walks a Kansas City man, who, with the usual, "Hello, Samuel!" informs me that the election is all fixed for Charles Allen of Kansas City and that all that is necessary to cinch the proposition is for all the delegates from my state to agree on Charles Allen.

I naturally had to inquire who this Charles Allen of Kansas City is, and what he has to sell, or what he has done for dentistry, and I was informed that he was on the Board of Trustees, Dean of the Kansas City Dental College, and, as far as this indi-

vidual knew, had nothing to sell. When we had gone over his qualifications I informed my visitor that I would like a little more time to talk to my fellow delegates before committing myself.

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I journeyed down to the lobby and as I was in the Hollenden Hotel, which is the headquarters for all the lobbyists I was received by the Texas delegation. They had yellow ribbons on their hats and showed me their display, which consisted of a large watermelon shipped by parcel post from Waco, Texas. They were all a fine type of men and showed an enthusiastic spirit. They were convinced in their own minds that Texas



was the only place in the Union to hold a meeting.

This was followed by an attack from a delegation from that dear old blue grass state, Kentucky, and, in the characteristic spirit of the state, they invited me to their headquarters to indulge in some Old Kentucky Bourbon. I informed the delegation that if they continued to prove their superiority as a place to hold a meeting by the brand of Bourbon on hand, they should have no difficulty in inveigling a large number of the delegates to make their decision immediately after the shot has reached the vital spot. They were a fine, enthusiastic crowd that would, if their state was not selected, take their defeat in the same manner as they did when first we were asked to participate in only one of the many hospitalities of that wonderful state.

My personal viewpoint on this, the selection of a location for the next meeting, is largely influenced by that wonderful meeting place in Milwaukee, where the whole show was held under one roof.

The majority of us are interested in the many phases of dentistry, and in order to cover the various sections, are compelled to walk a great

many miles unnecessarily, in order to listen to those papers in which we are interested, and often, not being acquainted with the city, we go many blocks out of the way.

The Cleveland Auditorium for the General Assembly and Exhibit Hall makes an ideal arrangement, but the various sections scattered in different hotels further complicates the situation.

Dr. Casto, that capable individual who was responsible for a large part of the good work done, informed me that when they had planned to hold the meeting, it was then understood that the small assembly halls and the entire building would be completed in time for our convention. Unfortunately, the entire building was not completed and the local committee had to utilize the various hotels for section meetings.

When a city contemplates assuming the responsibility of a national meeting, the question of suitable auditoriums and so forth, should be considered in advance of extending the invitation. Changing the time of the year when the meeting is to be held is also a factor, and the season should not be one in which our patients are making a demand upon our time.



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A Radio Lecture

Here is a splendid model for lay lectures.

By CHAS. J. BROPHY, D. D. S., New York, N. Y.

IF the information which I am about to impart to you through the courtesy of Station W. E. A. F. serves to keep some of you from joining the class of the elderly lady who, when asked by the dentist as to the condition of her teeth, replied, "Doctor, I have only two of them left, but thank God they meet," then I shall feel well repaid for the effort.

Nature has been very kind to us in granting us two perfect sets of teeth with which to properly masticate food in preparation for its reception into the stomach. The first, or temporary set, consists of ten teeth in each jaw, upper and lower. This is followed by the second or permanent set consisting of sixteen in each jaw, or a total of thirty-two. Plenty of teeth, you will admit, if we only knew enough to give them the attention they require.

The structure of the tooth itself can be influenced to a great degree when it is forming, or rather calcifying, before it comes through the gums. The structure of the temporary set depends largely upon whether or not the mother has been receiving proper foods containing calcium in such form that the baby may re-

ceive it for the developing teeth and bones.

If calcium has not been available in sufficient quantities, the prospects are that the child will have soft teeth. Among the most important foods from which this calcium may be extracted, might be mentioned milk, both sweet and buttermilk, vegetables, such as spinach, cabbage, carrots, celery, onions, cauliflower, and many others, are available sources of this important material. Where else can the child receive this important substance if it is not taken in by the mother's food supply? And later, the growing youngster must receive sufficient quantities in the substances he consumes or the blood will be unable to keep up the supply to the teeth and bones.

Sugar is recognized by investigators to be the great calcium thief of the human body and this undoubtedly is one reason why the Americans have poorly calcified teeth. Sugar robs the blood of this substance by combining with it.

Much can be done to keep these teeth from decaying, and premature loss of them prevented, if they are given proper attention.

The temporary teeth should be given the same careful

brushing as the permanent teeth. A soft cloth or soft brush as the gums are naturally tender, and possibly a small amount of lime water, prepared as the dentist directs, could be used to advantage.

Tooth powders are usually to be avoided until the child is old enough to realize that he must not swallow it or allow it to be drawn into the air passage.

As the child reaches the age of four or five, it is advisable to attempt the cleaning of the surfaces between the teeth, using dental silk floss carefully in order to avoid doing injury to the gums, as these surfaces are most likely to be the starting points of decay. This, by the way, reminds me of a little patient of mine who, when I asked, "Kenneth, are you using the floss silk as I requested you to?" replied, "I tried to, Doctor, but I can't, because I can't get both my fists into my mouth at one time."

Many mothers use an orange-wood stick with a small quantity of tooth powder to polish off the surfaces and keep them free from stain in that way.

The early cultivation of the habit of going to the dentist should be encouraged. No child should be taught to fear the dentist by reciting all sorts of horrible tales to make him believe that the dental office is a veritable den of horrors. Teach the youngster to believe that the dentist is a good friend of his and he will go willingly on his first visit to have his teeth cleaned, and the dentist

ought to show him the greatest consideration, in order that confidence may be established at this time. Many dentists are so painstaking and careful with these little visitors of three years or so, that the child looks forward to the subsequent visit with pleasure.

Premature loss of the temporary teeth in all probability will mean that the second teeth will come through the gums and assume all sorts of positions, owing to the fact that the proper spaces were not kept for them by the first teeth. Premature extraction results in the closing up of the spaces intended for the permanent teeth. Irregularities in the position of the permanent teeth, can, as a rule, be corrected by the specialist if the patient is reached early enough, and before the jaw bones have become too hard.

If decay starts, in spite of efforts to prevent it, have the dentist fill the cavity while it is small and before the nerve becomes exposed. Do not permit the child to carry old, broken-down, infected roots, with their so-called gum-boils, for roots are the breeding places for bacteria and other poisonous substances which are likely to cause infection, and in all probability will cause foul breath. Gum-boils usually denote the presence of pus in the area about the root, which is endeavoring to escape by coming through the gum.

So much for the temporary teeth. Keep them in good con-

dition. Surely the child deserves this proper start. Don't handicap him by neglecting them.

The second or permanent teeth usually begin to make their appearance about the sixth year when the lower front teeth, having caused a loosening of the temporary teeth by upward pressure against them gradually force them out of their sockets, or so loosen them that they are easily removed.

About this same time a second tooth is coming in, in back of the last temporary tooth, and is known as the first permanent molar, or sixth year molar, owing to its eruption in the sixth year. What a lot of trouble these sixth year molars, four in number, one on the upper and lower right ends of the set of temporary teeth and one on the upper and lower left ends, have caused! How many parents realize that this is not a temporary tooth, but a very important permanent one? How often a fond parent brings the child to the dentist with this permanent molar so badly decayed that it has to be removed.

Another point that should be kept in mind relates to the frequent accidents occurring where children are the victims of a blow on a front tooth, causing the loss of part of it, or causing the nerve to be killed by the impact, even without breaking or dislodging the tooth. If the child is taken immediately to the dentist after such an accident, it is

very probable that the tooth can be X-Rayed and the dead nerve removed before infection can cause the loss of it.

Never a day passes in our offices but we are asked numerous questions, such as the cause of decay, and the means whereby it may be prevented; the cause of Pyorrhea and its treatment; the effect of dead, infected teeth on the general health of the individual; the proper method of cleaning the teeth; the value of various preparations such as tooth pastes, powders, mouth washes, etc.; the advisability of having nerves removed from teeth, and a hundred and one similar questions.

In the few minutes allotted to me for this talk, I will endeavor to answer in a general way, some of these questions.

First, I would emphasize the fact that some of the principal results of poor teeth are the impairment of digestion, due to inability to properly grind up the food, and consequently overtaxing the stomach; the change in appearance of one's features; the impairment of speech due to inability to properly form the various sounds; physical discomfort, such as toothache, as well as the absorption into the blood of poisonous substances from the infected teeth, all of which may be prevented by sufficient care.

The cause of decay is very likely the retention of particles of food on the surfaces or in the deep grooves, or in the spaces between the teeth where

the tooth brush fails to be effective, resulting in decomposition of the food particles and formation of an acid which causes a breaking up of the enamel surface. This process leaves a very suitable spot for further extension of the decay. Improper diet, such as excessive use of sugar also contributes.

How then shall proper mouth cleanliness be maintained? The consensus of opinion among the members of the Oral Hygiene Committee of Greater New York, when this question was asked by its chairman at a recent meeting, was that the teeth and gums should be brushed from three to five times a day. And properly brushed means more than a lick and a promise. It means careful brushing, placing the brush on the gums over the teeth and brushing in the direction of the biting edges with a twist of the wrist, up and down, several times in each area, inside and outside surfaces, not forgetting the last molars or wisdom teeth, which as a rule are so sadly neglected.

The selection of dental powders and pastes is largely a matter of personal preference. All have some good qualities to recommend them, but not all of them will work the miracles claimed for them by the manufacturers. As a general thing you can test them between the teeth to determine whether they are too gritty for the enamel surface. Either a paste or a powder can be

used advantageously if used regularly, with this up and down stroke of the brush and sufficient pressure exerted on the handle to dislodge the food particles from between the teeth. The dental floss silk can be obtained in most drug stores and should be employed to clean the surfaces between the teeth, which are inaccessible to the brush. Care must be used not to force it down against the gums by taking a short hold on it, as it is in these spaces that the soft pasty highly refined foods eaten by most of us will find a suitable lodging place. Consider the type of food we consume. Is it any wonder that our teeth decay? Very few of us are called upon to do any real grinding of coarse foods such as is done by some races, whose percentage of dental troubles is less than five, with practically none but the mechanical cleansing obtained in this way, while ours is over ninety.

To rinse your mouth after meals with a mouth wash is good practice, as the removal of food particles and possible stimulation of the soft tissues will help materially. The value of massaging the gums with the finger occasionally, cannot be over-estimated. This stimulation of the blood in the gums adjoining the teeth will aid greatly, especially in the cases so often met with where bleeding occurs whenever the teeth are brushed.

Removal of tartar and deposits will be taken care of by

the dentist or dental hygienist when you make the regular visit, which should occur at least twice a year. The tartar is generally deposited on the tooth by the saliva at the points nearest to the places where the saliva enters from the glands. It is not to be regarded as a condition which should cause alarm, providing it is not allowed to remain on the teeth until irritation of the gums results.

The treatment of teeth in which decay has commenced is a comparatively simple matter if you will but take it in time and before the decay has progressed. The cavity in its early stage discovered by the probe of the dentist can be filled with little if any pain if it has not already penetrated completely through the enamel into the underlying substance known as the dentine. Decay always starts on the surface of the tooth and progresses inward, never in the interior, as some seem to think. If it passes through the enamel and reaches the dentine, the filling is attended with more or less pain owing to the sensitiveness of the latter. But even at this stage the dentist can make repairs without the necessity of removing the nerve.

If both the enamel and the dentine have been penetrated, the nerve will be exposed and must be removed in the majority of cases. This requires a great deal of work and checking up with the X-Ray to see that the nerve canals or root

canals in which the nerves run, are thoroughly cleaned out and sealed to the root end. If this root canal work is to be properly done so that there will be no danger of subsequent infection, an X-Ray of the roots should be made before starting the work and again after the canals have been filled, to show whether they have been completely filled or not. Sometimes these roots are so curved that they won't permit of filling.

To fill the canals thoroughly, requires a very high degree of skill and most painstaking effort. Often times five or six hours is required to clean and fill the root canals in a molar tooth owing to the minuteness of them, of which there are three in this particular tooth. All of this could have been avoided by early detection of decay, preventing it from reaching the nerve.

Thorough removal of the organic matter of which the nerve is composed is necessary in order that none of it remain to decompose in the tooth, the decomposition of which would very likely cause the tooth to abscess at the root end or apex. Many of you have undoubtedly experienced the sensation of soreness due to this infection when the teeth are tightly closed together. Some have undoubtedly experienced other symptoms, such as pain, swelling, pus formation, and an elongated feeling of the tooth on pressure, and in severe cases, an increase of temperature.

In some cases, these infected root canals can be cleaned out, and after treatment properly filled, but more often the X-Rays shows such extensive infection that the tooth has to be removed. You no doubt realize that there is hardly a physician in practice today but who recognizes the bearing of these infections on the general health of the patient. I have seen many systemic conditions completely cleared up by the removal of dead, infected teeth. The diagnosis in such cases requires a close co-operation on the part of the physician and dentist in order that the best results may be obtained.

I am safe in saying that the great majority of dentists have no desire to extract any tooth that can be saved, but there are many who would rather not be called upon to be a party to the retention of teeth which they feel convinced are causing conditions such as neuralgia, headaches, rheumatism, etc., due to the poisons originating about these teeth having been absorbed by the blood and scattered to various parts of the body. The X-Ray can be employed—and should be—to determine or assist in determining the condition of every dead tooth from which the nerve has been removed, or in which the nerve is presumed to have died. Don't carry a lot of dead teeth around without even knowing what condition the roots are in.

Restorative work should be of the very best. Plenty of

time should be spent in proper preparation of the cavity and only materials which will give lasting results employed. It is pathetic to see the mouths of young folks filled with cement or other temporary material which has been hurriedly inserted in order that the least amount of expense may be incurred. The gold inlay is preferred by many dentists for the teeth in the back of the mouth. Silver, if carefully inserted and polished at a subsequent sitting, is quite lasting, but does not compare with the former material for permanency.

The front teeth should be filled with porcelain, as it can be made to match the tooth structure. Badly broken down teeth can be restored very often to excellent appearance by what is known as the porcelain jacket crown, which is made to fit over the tooth after it has been properly shaped to receive it. This crown permits the tooth to be kept alive if the nerve has not already been removed. This is a very desirable feature, as the nerves should be kept alive wherever possible, as the majority of infections exist on dead teeth.

Practically everyone is familiar with the word Pyorrhea; in fact, it appears in the dental preparations' advertising matter so regularly that there are few who are not convinced that the condition exists in their own mouths. As soon as these advertisements have you folks convinced that you all have it,

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then they will try to convince us dentists that we have it also. If it does exist, it is not likely to be cleared up by brushing one's teeth with this, that, or the other dental preparation, anything to the contrary in the advertisements notwithstanding.

Pyorrhea may be due to any of several causes. Those having their origin in the blood of the individual are rather rare, presumably, or not nearly so common as those of local origin, such as irritation from tartar deposits would cause when left on the teeth for a long time, setting up an inflammation which eventually results in the production of bleeding, swelling, pus formation and a spongy, loose attachment of the gums to the teeth. Subsequently, pockets are formed about the teeth when the membrane surrounding the root is broken down.

This chronic irritation is often due to faulty contact of the adjoining teeth where a space exists wide enough to permit food, especially the fibres of meat, to be forced against the gums, or where fillings inserted on these adjoining surfaces fail to properly restore this contact between the teeth. Or again, where through loss of teeth excessive strain is placed upon the other teeth in order that they may carry on the work intended to be partly done by their departed brothers, and so they receive the irritation about the thin membrane of tissue which serves to hold all teeth in their

sockets, and the membrane begins to succumb to the excessive pressure.

In some cases the condition may be produced by fillings or crowns that are built up too high and cause the tooth to receive too much of the pressure in masticating the food. Pyorrhea due to these local causes may as a rule be treated successfully by removing the cause of the irritation. This means prophylactic treatment as soon as possible, such as the removal of all tartar deposits from all surfaces of the teeth; the cleaning out and irrigating of these pus pockets, the restoring of proper contact between the teeth, elimination of high fillings or crowns, the removal of teeth too far gone to be likely to respond to treatment, and the insertion of substitutes to take up some of the work of grinding, such as bridge work or plates.

The massaging of gums stimulates a healthy circulation of blood in the part, and a careful maintenance of cleanliness thereafter by following out the methods advocated by the dentist will very likely obtain favorable results.

In conclusion, I would state that I am a member of the Oral Hygiene Committee of Greater New York. This Committee is the official representative in oral hygiene matters of the local dental organizations and invites correspondence from all who are interested in the promotion of oral hygiene.

Editorials

REA PROCTOR McGEE, D.D.S., M.D., *Editor*
212 Jenkins Building, Pittsburgh, Pennsylvania

The Editor welcomes manuscripts and will take best possible care of any submitted, but cannot be held responsible for them. Manuscripts should be accompanied by self-addressed stamped envelopes. Typewritten manuscripts are preferred and should be double-spaced and written on one side of the paper only.

Japan

THE great earthquake and tidal wave that has swept Japan has probably never had an equal. Let us hope this is not the forerunner of terrestrial cataclysms that will sweep the islands and continents of the world.

In this issue we had intended to call attention to the new and very extensively circulated *Japan Oral Hygiene* which is almost a Japanese duplicate of this magazine.

With the destruction of the capital, including the Imperial College of Dentistry, it is probable that this very promising journal as well as the oral hygiene movement will remain quiescent in Japan for a very long time.

Let us extend our sympathy and condolence to the surviving dentists of Japan and do what we can to help them in their time of need.

At Cleveland

IN 1865 somebody built a depot suitable for a hick town of about 7,820 people. They then built Cleveland around the depot, and, if they had a big platform to get off on, Cleveland would be a good convention town.

Of course, they have a very useful lake for anybody to back into who doesn't like the depot and as the lake is only about 12 feet deep it looks as though a lot of people had taken advantage of the alternative.

The auditorium has a wonderful assembly room that is just like a picture—and when they get it complete there will be plenty of committee rooms which will make it possible in the future to hold a big convention all in one place, in Cleveland.

Unfortunately, so many of these smaller rooms are not complete that much of the work had to be done in the various hotels. Owing to the fact that the city is not at the mercy, either of the railroads or the politicians in the matter of hotels, there are plenty of good big hostelrys to take care of the crowd, which is the largest crowd that the National Dental Association, or, under its new name, the American Dental Association, has ever assembled.

The week previous to the big meeting was taken over by the various affiliated organizations and many of the things that

will happen to the public in the next year had their origin in these minor conventions.

In the basement of the Auditorium the manufacturers' exhibit is as big as the world's fair would have been a hundred years ago. The arrangement is very good and the ventilation better than they have been accustomed to.

One of the topics of conversation in the various lobbies is: "Who is Samuel Pepys, Jr., D. D. S.?"

It would seem that the articles written by our friend Samuel are highly appreciated, and a great many of the members of the Association have a lot of curiosity about the identity of that very clever writer. They will have a lot more when they read Samuel's account of the inside workings in the House of Delegates.

The noiseless movements of the politicians would indicate a great deal of activity in the swapping of votes.

The four faculties associations have finally gotten together just as they should be, so that there will now be one body which will attempt to direct dental education in the United States and Canada. We hope they will be able to do it successfully.

I would call particular attention to the delegation from Los Angeles and vicinity which numbers more than 50 members. This shows that all the live ones don't live in the East, and it may indicate also that in that remote movie picture district there are still a few who would like to see a country occasionally where the sky does its duty and the houses have chimneys, but whatever the reason was for their coming, they deserve a great deal of credit for the long journey across a desert.

The Great Meeting

AS this is written the meeting of the American Dental Association is in full sway in Cleveland.

So many dentists are present that the wonder is how they all make a living. Yet if the total number of dentists is compared with the total number of people in the United States, the wonder would be, how do so few make even an impression upon the terrific ravages of disease in the human mouth.

We must face an ever-growing discrepancy between the total population and the number of dentists.

Except for a comparative few, reparative dentistry will never be a reality. If we are to reach all of the people with permanent benefit we must teach them to care for their mouths so that there will be a minimum of reparative dentistry needed.

It now looks as if the Dental Welfare Week idea will be adopted by the A. D. A. This will be one small step in the right direction, followed, we hope, by other constructive steps to the end that we may become a race without caries rather than a race without teeth.

The plain fact is that America must choose between dental caries and human teeth. Will we help them decide the matter or will we let the future suffer from the ignorance of the present?

We are very largely responsible for the mouths of those Americans who will live after us.

The Three R's of Oral Hygiene—Rotate, Rinse, Rub

HOW many times in practice do we ask the question: "How do you use your toothbrush and do you rinse your mouth well and brush your gums?" and as many times comes the answer: "I brush my teeth up and down and in all directions but I never knew about brushing my gums—why should I brush those?" or again: "I try to sometimes, but they bleed when I do, so I keep away from them. Yes, I take a little water to wash out the paste."

I think if you ask nine out of ten patients these questions, you'll get the same answers or the feeling that the patient is under the impression that you are wasting his time with unnecessary questions and as he has had his teeth cleaned every year or two, in about twenty minutes, and never been questioned, what's the use!

If he could realize that if he had learned the three R's of oral hygiene along with his three R's of elementary education,

how much discomfort he would have been saved.

A sentence or two back, I used the phrase, "What's the use?" Thus the patient says and thinks.

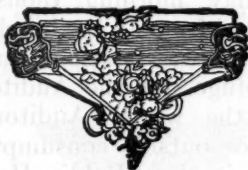
His teeth hurt to get, to keep, to lose—but if he can be educated to know there is nothing complicated about healthy mouths if we take the simple necessary care of them, we'll grow old with pretty good sets of teeth, keep our chins and noses from becoming too friendly, and do without the lines that come—except those of laughter and good-nature and Nature's etching of experience.

We use our three *educational* R's daily!
"What's the use" of the three *health* R's—

Rotate your toothbrush
Rinse your mouth
Rub your gums

to get

Hard gums
Healthy teeth
Hygienic comfort



Cleveland Sidelights

IT is certain that King Solomon never attended the Manufacturers' Exhibit in the American Dental convention, because he was in the habit of doing his building operations without the sound of a hammer. Everybody has to have a hammer to put up an exhibit. I am even told that they hire a lecturer who tells them how to sell hammers.

Upstairs there are long lines of people awaiting their turn at the registration windows, turning their pockets inside out and from the guilty look upon the faces of every other one, it is presumed that there have been many unmailed letters found in their pockets.

It is needless to say that what they are hunting for is their registration certificates.

The most popular window is the haven for those who did not bring their identification cards.

On Monday morning thousands of visitors started from all the hotels, boarding houses, railway stations, and other points of refuge, for the Auditorium in Cleveland; the word "Auditorium" is only used for outside consumption, the natives call it the "Public Hall." To those of us who have lived in the west, "public hall" carries with it the idea of booze and music, but since the booze is

gone and there is no music, the Public Hall simply becomes a meeting place, and we hope, eventually, it will be called the Auditorium.

In Old Kentucky

DOWN in Kentucky, the State Nurses' Association, at the suggestion of Dr. A. P. Williams of Louisville, has passed a resolution to make the teaching of mouth hygiene a regular part of their curriculum. This has been done in other states as well, but the difficulty in handling the work is the lack of proper diagrams, charts and illustrations—the information presented is necessarily difficult to understand.

An intensive organization of all of the oral hygiene committees of the country with one central bureau to collect and distribute all of the material necessary would make the handling of these problems very simple.

In fact, the whole matter for schools, hospitals and the general public would seem now to depend upon the organization of this central bureau.



Laffodontia

If you have a story that appeals to you as funny, send it in to the editor. He may print it—but he won't send it back.

"What are you studying now?" asked Mrs. Johnson.

"We have taken up the subject of molecules," answered the son.

"I hope you will be very attentive and practice constantly," said the mother. "I tried to get your father to wear one, but he could not keep it in his eye."

An elderly woman paid her first visit to the dentist to have several teeth extracted.

"Will you have gas, madam?" she was asked.

"Certainly," she replied. "I don't want you fumbling in the dark."

"I'm sorry to hear of your husband's death. Did he leave you much."

"Nearly every night."

CAL: "Who's the fat girl you spoke to just now?"

AL: "I don't know; I couldn't get near enough to catch her name."

The shy curate was put next to the very deaf duchess at dinner, and she wished to be gracious. "I didn't quite catch your name," she said. "Will you please tell me what it is?"

"Jinks, your Grace," answered the curate.

"Just a little louder, please."

"Jinks, your Grace," repeated the curate raising his voice.

"I'm awfully deaf," apologized the duchess. "Would you mind saying it just a little louder?"

"Jinks, your Grace," he almost yelled.

"I'm sorry," said the duchess, giving it up. "It sounds just like 'Jinks' to me."

HIGGS: "I'm running around all day trying to get something for my wife."

BIGGS: "Couldn't you even get any offers?"

NORA: "The man I used to be engaged to has asked me to go to the fireman's costume ball, but I don't know what to impersonate."

MAGGIE: "Why not go as an old flame?"

"Hello! I want to order a box for tomorrow."

"What size?"

"There will be six of us in the party."

"But they only come in single sizes; we'll have to have it made special."

"Is that the Lyceum Theatre?"

"No, this is the undertaker's."

MISTRESS (engaging maid): "Two things I insist on—truthfulness and obedience."

MAID: "Oh, yes—and when you tell me to tell a visitor you're out when you're in—which is it to be?"

HE (on honeymoon at Niagara Falls): "Isn't it wonderful, darling?"

SHE: "Yes, dearie if you love me!"
—Life

"So Jobson's pretty stenographer has left him. What was the trouble?"

"She caught him kissing his wife."

FEDERAL CLERK: "Who was the first President of the United States?"

CITIZENSHIP APPLICANT: "Christopher Columb."

F. C.: "I didn't ask you who discovered America."

C. A.: "Well, I no say Georga da Wash!"

HALITOSIS

AS DEFINED IN THE CENTURY DICTIONARY

(Hal-i-to-sis) N. N. L.

(L Halitus—Breath .. Osis—Offensive)

Offensive breath, whether arising from diseased or neglected conditions of the teeth, mouth or nose or caused by disorders of digestion, respiration, the excessive use of tobacco, etc., may be readily overcome by the deodorizing properties of—

LISTERINE

Listerine is strictly antizymotic, it inhibits alike the acid fermentation of carbohydrates and the alkaline putrefactive processes of mixtures of meat and saliva, retained as debris about the teeth; hence, Listerine is antagonistic to the activating enzymes of fermentation so often the cause of Halitosis.

Many dental practitioners who advise their patients to use Listerine daily as a mouth-wash, also keep Listerine in an atomizer on the dental bracket readily available for use prior to operations, in self defense against pronounced cases of Halitosis

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"GOLDDUST" RUBBER—AND WHY

Point 10—UNIFORMITY

Porosity is a condition which occurs often in the vulcanization of thick, heavy rubber plates. Strictly speaking, no blame can attach to the dentist—because ordinary base rubber is an uncertain material, and being a poor heat conductor, there is always the possibility of irregular distribution of the heat of vulcanization, resulting in "bubbles" and a finished plate which is porous.

Golddust" overcomes scientifically the tendency to porosity. Finely powdered aluminum mixed with the base rubber, forming a continuous heat conducting network, and permitting vulcanization of the thickest plates with perfect uniformity.

"GOLDDUST" THEREFORE MAKES PLATES OF ABSOLUTE UNIFORMITY THROUGHOUT

(Another Feature of "Golddust" appears in next issue.)

PRICES:

\$4.50 per pound. \$2.25 per half pound.
1/5th pound sample box (about 7 sheets) \$1.00.

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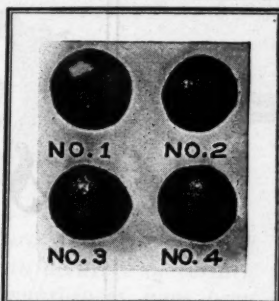
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Dentists and educators everywhere have felt the need of a book on the care and development of the teeth, written from the public health point of view.

THE TOOTH BRUSH MAN'S OWN BOOK, for mothers and children, NOW BEING USED AS THE ORAL HYGIENE TEXT IN THE MINNEAPOLIS PUBLIC SCHOOLS, answers this need. It is scientifically accurate, attractively illustrated in colors and simply and entertainingly written.

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Authoritative dental literature fails to support "novel" claims made by manufacturers of certain types of tooth pastes. No substances have been found superior to chalk and soap as dental detergents or preventatives of dental filth.

A GRIT-FREE precipitated chalk and a pure soap are the basic constituents of Colgate's Ribbon Dental Cream. The chalk mechanically detaches mucinous and calcic deposits from the teeth without injuring the dental enamel. The soap facilitates the removal of the detached material without injuring in any way the soft tissues of the oral cavity.

The highest tribute that can be paid to any dentifrice is seen in the world-wide recommendation of Colgate's Ribbon Dental Cream by eminent members of the Dental and Medical professions.

generous supply of samples will be sent postpaid to professional friends on request.



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This agent is a blend of finely powdered calcium phosphate and anhydrous calcium sulphate. In their pure form, as we use them, this blend forms the ideal polishing agent. It is much softer than enamel.

Natural teeth have been brushed with Pepsodent up to 250,000 times without the least signs of abrasion.

Pepsodent is mildly acid, to conform to the dominant modern dental opinion. This acid reaction is incompatible with the use of soap and chalk. Any soapy dentifrice, being alkaline, reverses the desired effects.

The mild acid acts to disintegrate the mucin plaque—to curdle or flake it—at all stages of formation.

It also stimulates the salivary flow and reduces its viscosity. This increases the alkalinity of the saliva, also its ptyalin content. And ptyalin is there to digest starch deposits.

Thus Pepsodent, with every use, gives greater power to these tooth-protecting agents in the mouth.

Its right use forces the acid wherever plaque may cling. Its twice-a-day use gives regularity to salivary stimulation, so essential to better tooth protection.

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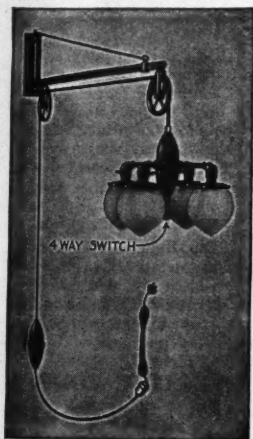
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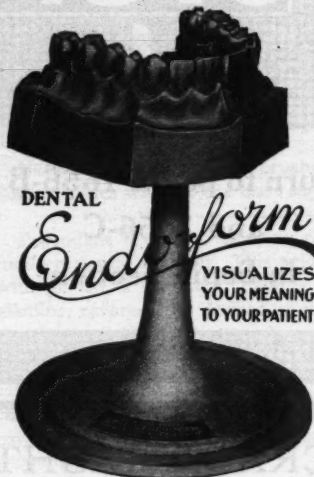
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It's rather difficult with the majority of patients, and naturally so. Unless they clearly understand the difference between one type of restoration and another, they cannot very well appreciate your recommendations, nor the reasonableness of your fees.

If you can make them see what you recommend so that they can easily understand it, you will succeed not only in convincing them but also in impressing them with your modern methods.

The DENTAL ENDO-FORM is an ingenious aid devised by Dr. Milton Cohen of New York City to enable a dentist to show a patient the condition of his mouth and at the same time to demonstrate the type of restoration the patient should have.

Be it a simple inlay, a three-quarter crown, a post crown, a porcelain jacket crown, a fixed bridge, or any type of removable bridge, the simplest or the most complicated type of restoration, your patient will understand it, when he sees it displayed on the DENTAL ENDO-FORM.

Our Bulletin H10 describes in detail this interesting practice-builder. Send for it. Just tear out this page, pin it to your card or letterhead and mail it to us.

COLUMBIA X-RAY & ELECTRIC CORP.

131 East 23rd Street

New York City

Zonite

AN ANNOUNCEMENT

THE disadvantages of the Carrel-Dakin Solution in the past are thoroughly familiar to all members of the dental profession. It has been difficult to prepare and practically impossible to maintain uniformity of quality. Also, it was highly unstable and lacked persistency in the presence of organic matter.

Hence the importance of the announcement of Zonite, a concentrated, stabilized and improved form of the Carrel-Dakin Solution, prepared by an electrolytic process. It more nearly approaches the ideal antiseptic than any other germicide now available. We make this statement knowing that it has been substantiated by exhaustive laboratory and clinical tests and that it has been endorsed by authoritative bacteriologists and surgeons who have thoroughly investigated the product.

Zonite maintains its full hypochlorite strength over a period of five months. Over a period of two years its loss ($\frac{1}{3}$ of 1%) is negligible. Zonite is more

than six times as effective as Dakin's solution in the presence of the organic matter of body fluids and more than three times as effective at the same hypochlorite strength. Zonite has greater penetration, less coagulating and haemolytic action, less irritating properties and permits far greater and speedier regrowth of tissue and reconstruction of animal cells than Dakin's fluid.

Hypochlorite produced by the Zonite electrolytic process is a distinct electro-chemical achievement. Authorities state that it solves the hypochlorite problem for professional and general use finally and effectively.

May we send you complete laboratory report on the antiseptic Zonite and a bottle of the product for testing purposes? The report covers a scientific investigation which includes among other things: (1) Stability test for Zonite and Dakin's; (2) Phenol coefficient test of Zonite and Dakin's against B Typhosus suspended in water; and (3) Determination of the relative germicidal properties of Zonite and Dakin's in the presence of saliva and other body fluids.

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Cast Gold Inlays, plain or to pins.

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Cast Full Gold Plates.

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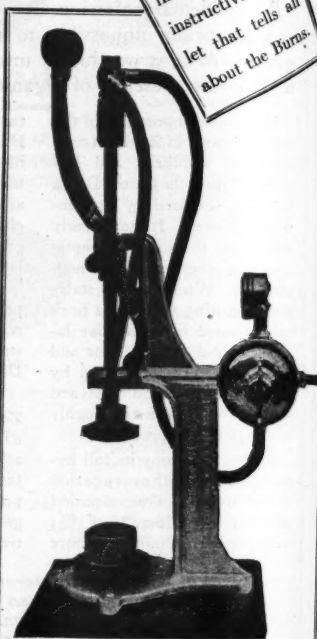
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And, 100% results is assured, as the entire casting operation is in plain view of the operator and under his control at all times.

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In Pyorrhea and Vincent's Disease, Dioxogen cleanses the mouth and destroys odors.

If it did nothing else, this alone would recommend it to dentists, for, along with the pain and disastrous physical effect, there is also a mental condition that is very distressing.

Dioxogen cleanses the mouth so thoroughly that the patient knows it quite as well as the dentist, and the effect is good.

Every dentist who uses Dioxogen knows how it destroys pus and exudates and how their odors instantly disappear.

With Dioxogen the patient can keep the mouth clean at home in the intervals between office visits, and this can be done without injury to the gum tissues and without pain. Home treatment materially assists office treatment and removes the most difficult and unpleasant features of these diseases.

The Oakland Chemical Co.

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NEW YORK

DUMORE

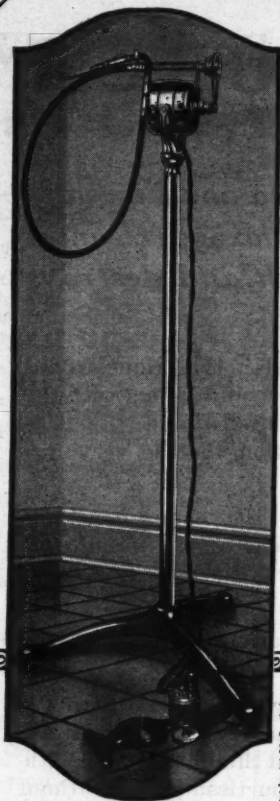
Portable Dental Engine

Pedestal Type \$72.50

Table Base Type \$67.50

DESIGNED for work in hospitals and homes, or as an auxiliary unit. Valuable, too, in the laboratory for polishing and similar tasks.

Sturdy and dependable, it is just the tool for emergencies. Your dental supply house can furnish Dumore engines. Write us and we will gladly arrange for an office demonstration of this handy unit.



All DUMORE Dental Engines are equipped with S. S. White No. 7 Hand-piece; Slip-joint and 31 inch Flexible Shaft and

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Wisconsin Electric Company
3263 Sixteenth Street, Racine, Wis.



Table Base
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DUMORE

DENTAL ENGINE

Prophylaxis Still the Main Defense Against Cavities and Pyorrhea

RECENT research in the etiology of cavities and pyorrhea has developed a clearer understanding of the contributory causative factors that is very hopeful for the future.

It is still apparent, however, that cavities occur through the medium of the plaque and bacterial acidity, and that the initial lesion in pyorrhea is due largely to local irritating factors.

It would be well, therefore, to continue the careful application of the present prophylactic measures for the prevention of these conditions.

An approximate surgical cleansing of the parts and the neutralization of acidity are two factors which should receive constant consideration.

SQUIBB'S DENTAL CREAM, made with Squibb's Milk of Magnesia, was developed to effect the nearest possible approach to surgical cleanliness of the teeth and gums, and through its content of Squibb's Milk of Magnesia to most effectively counteract mouth acidity.

Through the frequent use of Squibb's Dental Cream during the day and before retiring, all surfaces are thoroughly cleaned and a film of milk of magnesia is deposited in the sulci, the interdental spaces and under the free margin of the gum. This maintains an almost constant antacid and prophylactic condition.

SQUIBB'S DENTAL CREAM is free from harsh abrasives and harmful ingredients of all kinds.

It is effective under every condition of the oral cavity for people of all ages, and is ideal for the use of children. It creates a favorable field for natural healing processes and is, therefore, particularly applicable for use in the scientific prevention and control of pyorrhea.

SQUIBB'S DENTAL CREAM is a scientific product made to meet the demands for a neutralizing dental cream of correct composition, and is marketed with regard for the professional and ethical principles involved.

A complimentary tube will be mailed to any member of the dental profession. Please use the attached coupon.

E. R. SQUIBB & SONS, NEW YORK
MANUFACTURING CHEMISTS TO THE MEDICAL PROFESSION SINCE 1886.

THE "PRICELESS INGREDIENT" OF
EVERY PRODUCT IS THE HONOR
AND INTEGRITY OF ITS MAKER.

Copyright 1929.
E. R. Squibb & Sons, New York, N. Y.

E. R. SQUIBB & SONS, 80 Broadway, New York
Please mail me a complimentary
tube of Squibb's Dental Cream
Name _____
Address _____
City _____

Result of Slogan Contest on Brewster Cement

The judges after carefully considering all Slogans submitted, have awarded the prize of \$100. to Dr. Henry A. Lipschutz, of Tigerton, Wis., whose Slogan was;

"The One Cement Without a Flaw"

E. R. S. BREWSTER

Manufacturer of Dental Filling Materials

2730-32 High St.,

Chicago, Ill.



less; it contains no acid.

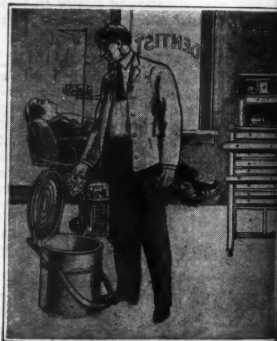
Dr.

Address

Dealer

The Gilcrest Company, 2052 Market St., San Francisco, Calif. Thru your dealer or direct on receipt of price, 75c

The sample is free though.



Equip your office with a Justrite Sanitary Waste Pail. Used by thousands of dentists as standard Office equipment. Opens with one foot. Closes automatically. Booklet on Request.

Order from your dealer.

JUSTRITE MANUFACTURING Co
2061 Southport Avenue,
Chicago, Ill.

NOW

*you will make more
removable bridgework
and this is WHY*

You will use the VAN DYK

"Built like



MULTI-PLEX

ATTACHMENT

THE VAN DYK MULTI-PLEX ATTACHMENT is a simple, standardized attachment for removable bridges and partial dentures which is absolutely *universal in its application*.

For use with either gold or rubber base, *inside or outside of the abutment, thus doing away with the need of devitalization* at any time. It is made in four sizes: Size A for use on anteriors; size B for cuspids and small bicuspid; size C, which has the greatest number of applications, for bicuspid and molars; size D, which is recommended mainly as an external attachment. It is made of rigid, high-fusing metal and because of this and its peculiar construction, it is guaranteed against breakage (a five-year guarantee accompanies each unit).

It will be found that it is *easy to adjust, needs no re-enforcing plate, and is superior in short bite cases*.

The technic is simple, requires no special instruments, does away with expensive parallelometers.

ECONOMY OF VAN DYK ATTACHMENTS—It is possible to cut 10 to 12 normal length attachments from a single VAN DYK unit. This means a saving of one-half to two-thirds the cost of other attachments for similar use. There is no waste, as only enough is cut off to supply length needed.

The VAN DYK PARALLELOMANDRILS simplify and make accurate paralleling without the need for expensive instruments.

The VAN DYK TAIL PIECE, made to fit the VAN DYK attachment, makes possible the use of a vulcanite base.

VAN DYK ATTACHMENTS, Inc.
155 West 72nd St., New York, N.Y.

MAIL THIS COUPON TODAY

and you will receive detailed information and

SPECIAL INTRODUCTION PRICES

VAN DYK ATTACHMENTS, Inc.
155 West 72nd Street, New York

Send me descriptive circulars and special introductory offer.

Dr.

Address

Dealer's Name

CRESATIN

Try it in

Pyorrhea

Non-escharotic
Antiseptic
Analgesic

In ozs. only
at
your druggist's



It stands alone

foreign
cause
anaest
while
solution
serious
To be
Antise
like on
keeps

On re
Mail t

THE
80 Ma

will qui
profitab
post gra
Waite'

Loc
Im

Which?

5 Minutes

1 Minute



Anaesthetic made with distilled water that is contaminated shortly after it comes in contact with air.

Waite's ready to use, sterile anaesthetic; hermetically sealed against contamination and deterioration.

Your time is too valuable to bother with boiling water and making anaesthetic, while the preparation of an anaesthetic is too important to be left to an assistant. Anaesthetic made with distilled water is seldom sterile, or free from foreign substances which are likely to cause soreness. The boiling of such anaesthetic makes it sterile only for the instant, while evaporation changes it from an isotonic solution to a hypertonic solution that may cause serious after-pains.

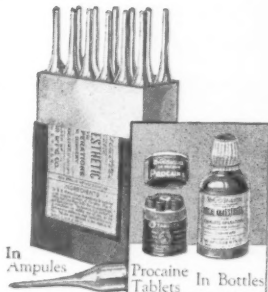
To be sure of a sterile anaesthetic, use Waite's Antiseptic Local Anaesthetic "In Ampules." Unlike ordinary procaine solutions, its antiseptic base keeps it sterile when opened and while being used.

Sample Box of Ampules FREE

On receipt of your professional card or letterhead. Mail the coupon.

THE ANTIDOLOR MANUFACTURING CO.
80 Main St., Springville, Erie Co., N. Y. U. S. A.

Branches: Fort Erie, Ont.; Paris, France



Nerve Blocking Book FREE

will quickly make you a master of this new and profitable science without private lessons or a post graduate course. See offer on coupon.

Waite's Anaesthetic is also sold in Bottles

Waite's
ANTISEPTIC
LOCAL ANAESTHETIC
2% Procaine or 1% Cocaine
In Ampules!

Check, Sign and Mail this Coupon

- ☐ Send me sample box of ampules, free.
- ☐ Ship the following order through

(Name of dental depot)

and mail me Waite's Nerve Blocking Book FREE with any of the following offers:

- ☐ 12 ounces or ☐ 12 boxes 1½cc Ampules of Waite's Local Anaesthetic, \$8.40.
- ☐ 12 boxes 2½cc or ☐ 12 boxes 3cc Ampules, \$10.20.
- ☐ Waite's Complete Nerve Blocking Outfit for making all injections. Value \$13.60, all for \$12.00.

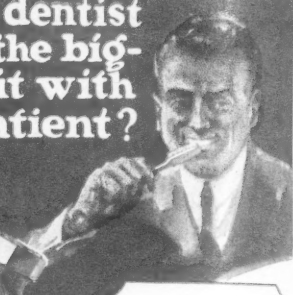
Name.....

Address.....

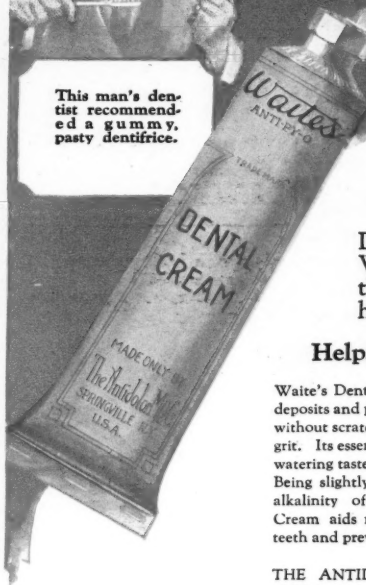
**Which dentist
made the big-
gest hit with
his patient?**



This man's dentist recommended a gummy, pasty dentifrice.



This man's dentist recommended Waite's, a dentifrice of creamy consistency.



Dentists who recommend Waite's Dental Cream to their patients win their hearty approval.

Helps nature protect teeth

Waite's Dental Cream emulsifies and breaks down deposits and plaques—cleans and polishes the teeth without scratching the enamel. It contains no harsh grit. Its essential oils give it a pleasant tangy mouth-watering taste and stimulates the flow of the saliva. Being slightly alkaline, it temporarily adds to the alkalinity of the saliva. Thus, Waite's Dental Cream aids nature in her work of protecting the teeth and preventing decay.

THE ANTIDOLOR MANUFACTURING CO.
80 Main St., Springville, Erie Co., N. Y., U. S. A.

Branches: Fort Erie, Ont.; Paris, France

SIGN AND MAIL THIS COUPON

Enclose Professional Card or Stationery

THE ANTIDOLOR MFG. CO.,
Springville, Erie Co., N. Y., U. S. A.

I desire to make my own tests and comparisons of Waite's Anti-py-o Dental Cream. Please send me large tube free.

Name.....

Address.....

Full Size Tube FREE

Mail the Coupon for a full size tube of Waite's Dental Cream for your own use and tests. Convince yourself that it is the kind of dental cream you want your patients to use.

Waite's
ANTI-PY-O
DENTAL CREAM

You
Send
the
dent
for a
Lily



Closeups of Patients—No. 10



*"My, what you dentists don't
think of now-a-days!"*

The dentist grandma went to as a girl didn't even use electric drills. No wonder she's a little bit awed by the Lily Cup—it's just a little thing, yet it symbolizes to her the great progress dentistry has made.

Lily Cups are so impressive to patients, so convenient to you, you ought to use them—especially since they're so inexpensive.

PUBLIC SERVICE CUP COMPANY
Bush Terminal No. 20 Brooklyn, N. Y.

Your Card, Sir—

Send it with the the name of your dental supply house for a trial supply of Lily cups.



Serve in a

LILY



What are Prophylax-O Tablets?

They are the tablets that dentists everywhere are using for prophylaxis in preference to the old-time mussy, messy method of mixing up pumice and things.

Prophylax-O Tablets *combine* a polishing agent, an abrasive agent and an antiseptic—these three essentials are *united* in Prophylax-O Tablets.

Use this prophylactic *unit* to speed up prophylaxis—you can do better work in less time.

Proof? The coupon below will bring free samples that will enable you to conduct a test and satisfy yourself regardless of what *we* say.

Ellis-Jones Drug Co., Memphis, Tenn.

Please send free samples of Prophylax-O Tablets
(Gardner)

Dr.

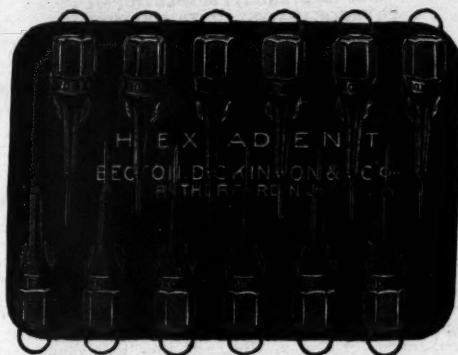
Address

Dealer

B-D PRODUCTS

Made for the Profession

HEXADENT NEEDLES



Put up one dozen on Metal Holder and Wrapped in
Oiled Paper
For Protection and Convenience

Made in

Steel, Gold, Platinum-Iridium

in a range of gauges and lengths suitable for every purpose. Every needle individually honed and guaranteed against leakage in service. Buy them in original packages of one dozen from your dealer.

Manufactured by

BECTON, DICKINSON & Co.
RUTHERFORD, N. J.

Makers of Luer Dental Syringes, Asepto Dental Syringes, B-D
Water Syringes and Security Dental Needles.



BUTYN SOLUTION READY TO USE

Here, in answer to many requests, is BUTYN-EPINEPHRIN SOLUTION, all ready for immediate use, in a contamination-proof safety container. "The bulk ampule" is a happy phrase which perfectly describes this vial, which has proven satisfactory for years as a holder for biologic preparations, and is now adapted for an anesthetic solution.

As with an ampule, you simply insert your hypodermic needle through the sterilized spongy rubber diaphragm and draw out the required amount of solution. But, with this "bulk ampule" when you withdraw the needle, the vial is at once hermetically sealed, preventing contamination. Careful tests have proven the exceptional stability of this solution in this container. The cover is crimped on to prevent tampering with the solution.

$\frac{1}{4}$ " needle or longer may be used.

NO AMPULE TO BREAK
NO TABLETS TO DISSOLVE
NO WASTAGE OF SOLUTION

Net price in U. S. A.
\$2.25 per 100 c. c. container.



THE ABBOTT LABORATORIES
Dept. 97, Chicago

NEW YORK
LOS ANGELES

SAN FRANCISCO
TORONTO

SEATTLE
BOMBAY

Dealer's Name.....
Address.....
Send me..... 100 c. c. containers of Abbott's Butyn-Epinephrin
Solution at \$2.25 each.
Dr.....
Address.....

ORAL HYGIENE



Test the Rigidity of **SMITH'S SILVER CENTER CANAL POINTS**

TAKE one of these points in a pair of Foil Pliers and begin by pressing it gently on the back of your hand, gradually increasing the pressure.

You will note that the point will not curl up or "buckle" at the end.

Test an ordinary Gutta Percha point in this manner and note the result. Regardless of how large it may be, you will find that it will curl or buckle at the tip, just where it should be rigid.

The fine pure silver wire that forms the core of this point is responsible for its rigidity, and yet the point is so flexible that it will follow the crooks and curves of the most difficult canal.

And when X-Rayed, the silver wire will show up clear and distinct.

If you haven't asked us for samples, do so now—we really want you to know what an efficient point this is.

Here is a coupon—
fill it out
and mail it
NOW

**Lee S. Smith &
Son Mfg. Co.**

**Pittsburgh,
U. S. A.**

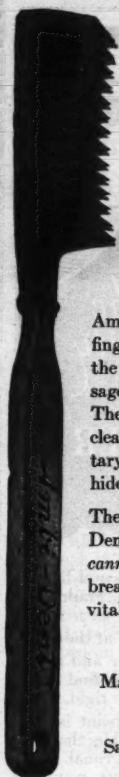
**Lee S. Smith & Son Mfg. Co.
Sharpsburg Sta., Pittsburgh, Pa.**

**Gentlemen:—Please send me samples of Smith's
Silver Center Canal Points.**

Dr.

Address

Dealer



**Not just
a Tooth
Brush But
a Gum
Brush too!**

Ambi-Dent's rubber finger-bristles clean the teeth and massage the gums, too. The rubber bristles clean—and are sanitary. Germs cannot hide in this brush.

Then too, Ambi-Dent's rubber bristles cannot come out or break off. This is a vital advantage.

Massages—cleans
polishes

Sample brushes:
3 for \$1

Ask your druggist to stock them

**AMERICAN
TOOTH BRUSH
COMPANY**
St. Marys, Pa.

**AMBI-
DENT**
DR. H. B. MARSH

A. P. W. Needles

***Sharp Needles—
Less Pain***

To be sharp, needles must be made of hard metal.

And A. P. W. Needles are made of just that kind of metal.

They are 30% Iridium and 70% Platinum, which gives them the hardness to hold a keen cutting edge that enables you to make an almost painless incision.

And, because of this hardness they can be sterilized in the hottest flame.



Once you use A. P. W. Needles you will never be satisfied with any other kind.

Ask your dealer about them.

American Platinum Works,
N.J.R.R. Ave., at Oliver St.,
Newark, N. J.

ORAL HYGIENE

*Carpule Prices
Adjusted
to Quantity Basis*

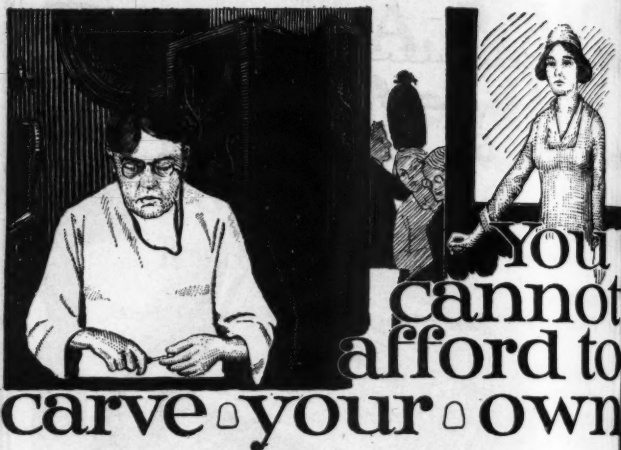


DENTISTS who buy Cook's Carpules in lots of a dozen boxes or more, are entitled to the "quantity price."

Cook's Carpules ("ampules in cartridge form" for local anesthesia) were formerly bought by the Dentist at \$1.20 per box of one dozen Carpules. The new basis gives direct to the Dentist the full quantity-discount of 16⅔%—

—Twelve Boxes for the price of Ten.

Order from Your Dealer



Assuming for the moment that your training and skill enable you to carve and bake beautiful porcelain crowns, we believe you would find it economically unprofitable in the majority of cases.

Trubyte crowns, as carved by Dr. J. Leon Williams, present the finest crown forms ever produced, and they not only are economical but are mechanically, anatomically, and artistically correct.

In the average practice where there is so much to be accomplished by one man, and so few hours in which to achieve results, it

is desirable if not necessary to delegate as much of the work as possible to others.

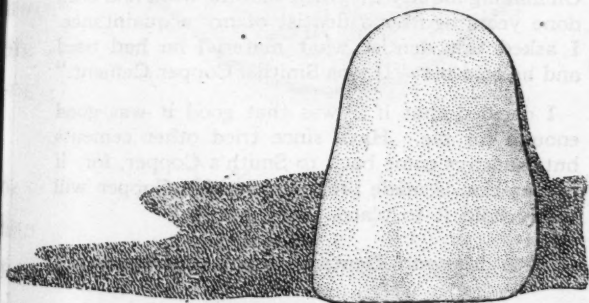
Think what an endless task would confront you if teeth, gold, instruments and other necessities had to be made by you before you could complete a case. So we repeat, you cannot afford to carve your own crowns for the majority of cases.

No doubt, you were often tempted to before Trubyte crowns were introduced, but now that temptation is removed. If you haven't tried Trubyte crowns, it's high time you did.

Your Dealer or Direct

The Dentists' Supply Company

New York



“—but I always come back to Smith's Copper”

*writes a dentist from the state
where they have to be shown.*

Here's his letter—

Gentlemen:

I want to tell you how I started to use, and why I still use, Smith's Copper Cement:

When I first opened an office, a patient came to me with an anterior bridge on which facing had broken off. I noticed the abutments were merely pieces of flat clasp metal simply connected to lingual and lateral incisors—no cavity preparation whatever.

On making inquiry I learned that the work had been done years ago by a dentist of my acquaintance. I asked this dentist what material he had used and he told me: “It was Smith's Copper Cement.”

I decided that if it was that good it was good enough for me. Have since tried other cements but I always come back to Smith's Copper, for, if preparation is made properly, Smith's Copper will surely hold it to place.

A Missouri Dentist. (name on request).



The 6-4

Package Saves you
approximately

\$4.00

CONTAINS—

six full-portion pow-
ders and four full-
portion liquids—
and a bone spatula.



Your dealer has it

LEE S. SMITH & SON MFG. CO.

PITTSBURGH, U. S. A.

What President Coolidge Would Do

John Bantry, in the Boston Post, says that President Coolidge combines, in an admirable way, a fine liberality with the somewhat old fashioned New England trait of always getting full value.

He writes: "Calvin Coolidge would give his last cent to a friend, but he abhors unnecessary spending."

If Calvin Coolidge was a Dentist instead of President, you would find Hood's Golds in his Cabinet.

You, who mix a wholesome, thrifty desire to get what you pay for, with your desire for the best, will use Hood's Golds.

When you buy Hood's 22Kt Gold Shells you may be sure you are getting 22Kt. Gold. Uncle Sam allows a generous leeway and permits the use of a 22Kt. stamp on Gold that would not assay to quite that fineness. Hood's Golds prove up to their official mark.



JOHN HOOD COMPANY
178 TREMONT ST., BOSTON

The Prophylaxis of Dental Caries

The Cause of Dental Decay: The presence in the mouth of lactic and butyric acids formed by bacterial action on food particles.

The Results of Dental Decay: Roughening, softening and penetration of the enamel; damage to the dentine; the formation of cavities affording lodgment for pathogenic organisms, with subsequent development of root abscesses, gingivitis, pyorrhea, etc.

How to Prevent Dental Decay: The daily, systematic application of a suitable, non-irritating, non-abrasive alkaline fluid is the best and most practical method of controlling or preventing dental decay. This is not an empty assertion, but it has the support of authority.

Note: Thousands of your fellow-practitioners have made the discovery that "Phillips' Milk of Magnesia" is just such a fluid. It completely fills the bill. It is the ideal alkalinizer for use in the human mouth.

WHY YOU SHOULD SPECIFY "PHILLIPS' MILK OF MAGNESIA"

- a. It is pure, i. e., free from every trace of deleterious substances.
- b. It is a hydrate and, therefore, has a special affinity for acids.
- c. It acts immediately and efficiently, and has no disagreeable effects.
- d. It is three times as efficient as bicarbonate of sodium and *fifty times* as powerful as lime water in neutralizing acids.

HOW TO USE "PHILLIPS' MILK OF MAGNESIA"

Kindly instruct your patients to rinse the mouth with a tablespoonful of "Phillips' Milk of Magnesia," at least twice a day, and invariably at bedtime, as acidity is most likely to develop during sleep.

Complete directions are in each 4 oz. and 12 oz. bottle.—Drugstores

PHILLIPS' Milk of Magnesia



Write Your Own Insurance Against Post-Extraction Pain

If you will use and prescribe SED-A-VOL, you will have insurance with 100% protection, guaranteeing you the faith and good-will of every extraction patient after they have left your office.

You should give every patient two SED-A-VOL tablets before and two after the extraction. As they leave, give them a prescription. This way your insurance is assured.

If You're a User

If you're a user, check in the margin to the left and we will send you a liberal supply of Home Treatment slips and prescription blanks.

If Not a User

If you are not familiar with SED-A-VOL, check in the margin to the right, and we will send you a convincing professional sample.

Dental Pharmaceutical Co., Inc.
HOLTON, KANSAS

Patients welcome this new service

A broken denture—a broken tooth?
With Quick Repair Dough Platite,
you can repair either, permanently
and quickly—*without* vulcanizing.

Patients keenly appreciate unexpected service of this sort. Instead of the anticipated long wait you complete the work in less than an hour.

Simply prepare the denture as you would a vulcanite case and apply Q. R. D. Platite. In a few minutes the Q. R. D. is dry and hard and the denture is permanently repaired.

Q. R. D. Platite is very simple to use. You handle it just as you would putty. No skill is required. In fact, you or your assistant can use Q. R. D.

and make expert repair jobs the first trial.

Q. R. D. Platite will be a great time and money saver for you. It will enable you to repair dentures without the delay and expense of vulcanizing. Almost immediately after a repair has been made Q. R. D. dries and becomes permanently hard.

Try a package of Q. R. D. Platite and see how satisfactory it is. You may purchase it either direct or through your supply house for \$3.00 a package.

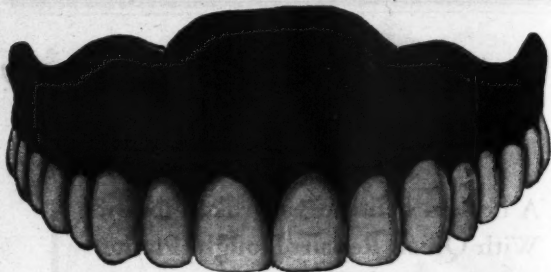
Quick Repair Dough
QRD
Platite

Anti-Pyorrhea Chemical Company

Commercial Building

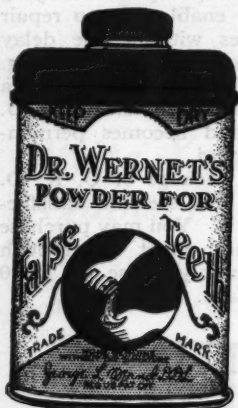
St. Louis, Mo.

Manufacturers of Cato Tooth Paste and Platite.



Psychology—Der

The ORIGINAL Plate Powder



The psychological effect of a fleck Dr. Wernet's Powder on a wax trial plate and a new denture is invaluable. It inspires confidence, creates courage, does away with long technical explanation, saves your time and nerves at the chair. Try it, Doctor.

Dr. Wernet's Does These Things

- 1—Gives instant adhesion ("Suction").
- 2—Permits patients to eat meals the first day with comfort.
- 3—Stops any tendency to gag or vomit.
- 4—Enables patient immediately to talk properly.
- 5—Prevents rubber-sore mouth.
- 6—Overcomes nervous habit of pushing plate with the tongue.
- 7—Prevents despondency and disappointment.
- 8—Keeps patients cheerful and confident.
- 9—Creates satisfied patients and builds your practice.

H. R. LATE & CO.

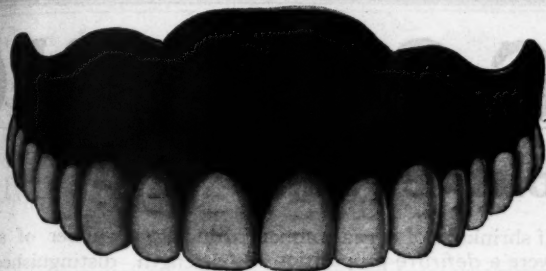
U.S.

116 B.
New York.

Sold by drug stores and houses

WERNET CO.





Dr. Wernet's Powder

Dr. Wernet's Powder for False Teeth

(A White Powder)

The latest tool in Dentistry. In color, taste, fragrance, and adhesive action vastly superior to any other apparently similar preparation.

Dr. Wernet's Powder for False Teeth

(A White Powder)

is being widely used by the profession

- On wax trial plates for articulation
- To keep cotton rolls from slipping and sliding
- To stop any tendency to gag or vomit
- On partial plates after extraction
- On temporary plates
- On plates for flabby ridges
- On old plates after changes have been made in them
- To eliminate bite plate trouble
- To cure blister or sore spot after plate has been trimmed

AT& COMPANY, Inc.

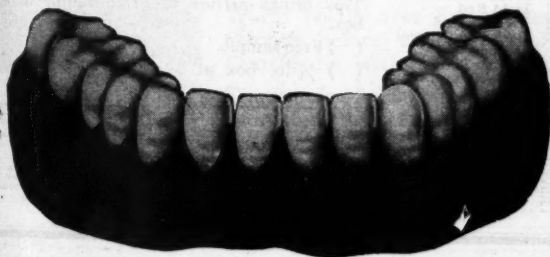
U.S.

116 B.

New

by drug ment
es and ouses

ERNET CO.



CORNING

Blended Pink — *does not shrink*

If shrinkage of dental rubbers were a *definite* proposition—if the extent of shrinkage were uniform—it wouldn't be so bad!

But dental rubber shrinkage *isn't* uniform—you never know exactly how much shrinkage to expect.

The best way is to eliminate shrinkage altogether.

That's what Corning did.

Corning Blended Pink Rubber *does not* shrink.

A strong rubber—with life-like tint—that packs easily

The, care, the skill, the experience that resulted in production of this non-shrinking rubber, resulted also in pro-

ducing a rubber of superior strength, distinguished by life-like tint and the quality of easy packing.

And it has stood the test of years. Still, you won't be able to sense just how it will work under your hand, nor how it will look in the mouth until you use it.

Therefore the coupon—and the free sample offer it invites you to accept. Or, since we guarantee to refund your money if you're not highly pleased, perhaps you will want the ¼-lb. box at \$2.50; mention your dealer so we can give him credit.



Corning Rubber Co., Inc.

174 Duffield St., Brooklyn, N. Y.

- ☐ BASE PLATES
- ☐ Light Red
- ☐ Medium Red
- ☐ Dark Red (Brown)
- ☐ Maroon
- ☐ Golden Plate
- ☐ Dark Natural
- ☐ Black
- ☐ Red Weighted
- ☐ Black Weighted
- ☐ VENEERS
- ☐ Blended Pink
- ☐ Spl. Lt. Pink
- ☐ Light Pink
- ☐ Deep Pink
- ☐ White

This brings *either* the free sample or the ¼-lb. box.

() Free sample.

() ¼-lb. box at \$2.50.

Dr. _____

No. _____

City & State _____

Dealer _____

For 10c

a complete set of samples—samples of Brown's Specialties—famous for more than 33 years.

Just send the dime to cover mailing and we will mail you a complete set of samples right away, including Brown's Cleaning Fluid. Stamps will do.

THE WHEELER-BROWN SPECIALTY CO., INC.

472 Main Street, Fitchburg, Mass.

Serving the Profession for More Than Sixty Years

Insist Upon

"THE OLD RELIABLE"



If your dealer is unable to supply you, address

W. H. CLERKE, Special Agent

1136 Venango St., Philadelphia

What they say about

DENTMEDIC



It is a positive Pulp Capper and Cavity Lining

ALL IN ONE

Easily applied, stays put. Does not run into retention points.

Warm bottle over flame a few seconds before shaking, apply DentMedic with loop broach.

Thousands of dentists are using DentMedic with best results.

Sole Distributor, Ransom & Randolph Co., Toledo O.

Tear this out and mail it to your dealer or will send direct upon receipt of \$1.50 check. DENTMEDIC LABORATORY, 3318 E. 55th St., Cleveland, O.

Send me 1 bottle DENTMEDIC (enough for 500 operations) \$1.50.

Dr. _____

Address. _____

It is easier to master one technic than two

*—and, the simpler the technic
the better*

THEREFORE, if you have mastered the technic of mixing good zinc or copper cement, you can use the same technic in mixing Certified Enamel.

In mixing any good zinc or copper cement, the powder is added to the liquid in very small portions at a time and each portion added is thoroughly spatulated into the mass.

Zinc and copper cements are mixed that way to make them sticky.

Certified Enamel is mixed that way to make *it* sticky.

And, just as any good zinc or copper cement is mixed slowly to allow more complete chemical reaction between the powder and the liquid, so is Certified Enamel *mixed slowly* to allow more complete chemical reaction between the powder and the liquid.

The greater the extent of chemical reaction the less free acid in the completed mix—and less risk of pulp trouble.

Certified Enamel is the only **ADHESIVE** silicate, because it is the only silicate in the world that may be mixed slowly and spatulated thoroughly.

And, it is known the world over as **THE SAFE SILICATE** for that very same reason.

Buy it from your Dealer

LEE S. SMITH & SON MFG. CO.
Pittsburgh, U. S. A.



The New Quantity Package

Displaces the four-color, ten-color and fourteen-color packages.

It contains 12 powders, 10 liquids and 2 bottles of varnish—really \$35.00 worth of material for \$30.00, which means—

A Saving of
\$5.00

ORAL HYGIENE

"Ask Your Dealer For"
HYGIA



¶ Its beautiful finish of Glossy White enamel is a delight to the most fastidious eye, definitely creating the atmosphere of spotless cleanliness which your office should always reflect.

¶ HYGIA, which is solidly constructed of rust-resisting Armco, iron with working parts highly nickled throughout, can also be obtained in rich Mahogany or Pearl Gray enamels.

"Don't accept substitutes. If your Dealer hasn't Hygia, he can get it for you promptly.—But most Dealers have it,"

HYGIA CAN COMPANY

Manufacturers

141 Franklin Street

New York City

The Newest Rolling!

Have you seen the new ROLLING Rx? It is the one and only tooth brush, perfectly shaped like all ROLLINGS are, long curved bone handle, to insure a firm grasp, small as to size, dainty in appearance, bristles strong and resilient.

The dentists are recommending it. It is the only tooth brush of its kind, and may well be called "the dentist's ready assistant."

Every brush warranted.

Samples 65 cents each, postage prepaid.

ALL ROLLING brushes are imported.

THE ROLLING TOOTH BRUSH
COMPANY,
Montclair, New Jersey.

The new ROLLING Rx brush has been suggested by Dr. F. S. McKay, New York City, in conformity with the growing conviction that the brushes in general use have been entirely too large to reach and make contact with the tooth surfaces and properly frictionize them, particularly those teeth which are located in inaccessible positions in the mouth.



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The Inlay Vulcanizer



Something new! The first basic patent idea in dentistry in 20 years.

Pour in one mix. No boiling out. No packing—inlay finishing.

No more dirty work.



Introducing the New Material—HODITE

A product of the war chemists—lighter than aluminum—as strong as steel—no taste or smell—impervious to acids or alkalis—absolutely non-breakable—no color change—not expensive.

Pressed into place exactly as an inlay, by the inlay vulcanizer.

Rubber is porous—unsanitary—brittle—has no stable color; it will be dead as celluloid once you work this new material.



No Taste



No Smell



Smooth to Tongue



Unbreakable

The Hodcarrier People

W. Palm Beach, Fla., U. S. A.



An Astringent

Calcium ion makes Formula B an ideal astringent, for use in checking bleeding gums and after tooth extraction.

An Antiseptic

Formula B contains boric and benzoic acid, thymol, menthol and eucalyptol. These make it an excellent agent for healing, protecting, purifying and deodorizing. Not as a mouth wash only, but as a lotion, gargle spray or douche.

A Salivary Stimulant

Fruit acids—derived from orange, lemon, grape and apple—make Formula B a salivary stimulant. It increases the flow, the fluidity and the alkalinity of the saliva.

The Modern Mouth Wash

Formula B is a mouth wash which accords with modern scientific requirements. It is unique in its calcium salts and fruit acids. It omits the poisonous salts of heavy metals, so frequently used before.

You will like it, approve it and prescribe it, we believe

Formula B

The Guardian Lotion

Made by the makers of Pepsodent

One Bottle Free

Please send the coupon for a bottle to test, also for full information. Enclose card or letterhead. Investigate this new creation on which we have studied for years.

The Pepsodent Company,
1104 So. Wabash Ave., Chicago

Please send me without charge full information on Formula B and a bottle for test.

.....
.....
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ALVATUNDER

eliminates post-operative pain—may-be you didn't know that!

The formula of Alvatunder, the oldest local, embraces ingredients which control post-operative pain. So, following an operation conducted under Alvatunder anesthesia, it is *not* necessary to employ other means to guard against post-pain. This has always been true of Alvatunder. Nothing new—just a reminder of one of the many reasons why you will *like* Alvatunder—why it has found favor for so many long years.

Sold by dealers

On request we shall be glad to send sample of Alvatunder in the procaine form; no narcotic blank required. For those who prefer cocaine, the cocaine form of Alvatunder is still manufactured.

HISEY DENTAL MFG. CO.
ST. LOUIS, U. S. A.

Just think what it means to
you and your Patients
when you use

WACKLER'S

PULP SEAL
FORMULA OF E. C. Wackler
D. D. S.

IN USE SINCE 1900

To Eliminate the removal of
Pulp Tissue from root canals
after devitalizing, and filling root
canals rendered aseptic.

Powder and Liquid
You mix 'em—Price \$3.00

Manufactured only by

**E. C. WACKLER DENTAL
MFG. CO.**

MILWAKEE, WIS., U. S. A.



**REMOVE DECAY
AND PLACE
DEVITALIZING
FIBRE.**



**REMOVE FIBRE
DRILL OUT PULP
CHAMBER, BUT
DO NOT REMOVE
PULP TISSUE FROM
ROOT CANALS**



**PERMANENT
FILLING
CEMENT
PULP
SEAL**

**NOW CREDIT YOURSELF
WITH A FEW BROACHES
AND A HAPPY PATIENT**

For Both Teeth and Gums

Revelation is definitely indicated for care of the gums as well as the teeth.

It is one thing to produce a tooth powder—another to produce a powder like Revelation that embraces hygiene not only of the teeth themselves but of the entire oral cavity.

And there is no grit in Revelation. There is no glycerine in it—nor a single “drug.”

Thousands of dentists use and prescribe Revelation. So that you, too, may have the same first hand knowledge of Revelation that thousands of your colleagues possess, we stand ready to provide a full-size can free.

Please send your professional card—or a note on your professional stationery.

August E. Drucker Co., 2679 California St., San Francisco, Calif.

REVELATION

For Teeth



and Gums

Preventing Caries During Pregnancy

The appalling ravages of dental caries during the period of woman's pregnancy presents an unusual and baffling problem.

Since obstetricians have, in recent years, demonstrated that the "still born" infant's heart often contains the precise type of bacteria found in abscesses in the mother's mouth, the importance of giving her teeth every possible care and attention, has been further emphasized.

The well-informed physician now insists that his patient, the prospective mother, see a *dentist*, and have all abscessed teeth extracted and her remaining teeth put in the best possible condition. But the problem of preventing the ravages of caries still remains, as the average patient does not possess the high degree of finger skill and patience necessary, with

ordinary dentifrices, daily to remove the mucin plaques, especially from the approximal faces and other hard-to-reach areas of the teeth. What has been needed, is an easier, surer means of effecting thorough all-around cleaning of her teeth to prevent "spot acidity."

Mu-Sol-Dent fills this long felt need. By first softening and dissolving the mucin plaques on teeth, it makes thorough removal with brush and tape, a comparatively simple and easy operation. The prospective mother thus enabled most effectively to prevent spot acidity, the cause of dental caries.

Mu-Sol-Dent is the first and only efficient and harmless mucin solvent. As such, it is of universal application offering to all the most logical solution of the oral hygiene problem.

V. B. Corporation, 916 Forbes St., Pittsburgh, Pa.

Mu-Sol-Dent

dissolves mucin

For free sample and literature, sign here:

Name.....

Street.....

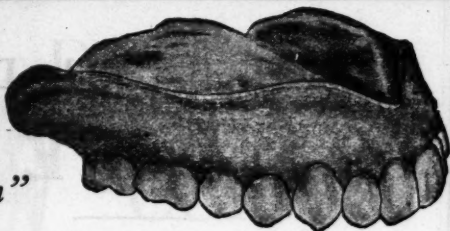
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Detach and Mail

(10)

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"The Pink
of Perfection"



McCormick's "Blended Pink" Rubber

Reg. U. S. Pat. Off.

used in combination with the following McCormick BASE RUBBERS make an ideal denture: No. 3 Dark Orange, No. 6 Maroon, No. 4 Light Red, No. 18 Red Weighted, No. 22 Olive, No. 25 Gold Flake, No. 12 Brown.

\$2.50 per $\frac{1}{4}$ lb. box—from
your dealer or direct.

E. J. McCormick Rubber Co., Inc.

Lodi, N. J.

and only
in solvent
application
cal solution
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Safest - - - Best

Don't say "Anaesthetic"

Just say, Dr. Gilmore's

EXCEL

No Government blank required.

It has been on the market 28 years
and is without an equal. Order it
through your dealer.

oz. bottle, \$1; 12 oz. bottle, \$5;
our dealer will refund your money
if you are not satisfied. Try it and
be convinced of its superiority.

Manufactured by

Excel Chemical Co.

Dumont, N. J.



FLECKS RED COPPER CEMENT

SAVES DECIDUOUS
TEETH

AT ALL DEALERS

Ash High Grade Dental RUBBERS

GUM PINK LIGHT

Has stood the test for sixty-five years, pre-eminent for color and natural appearance.

DARK ELASTIC (Dark Olive)

The original of all non-mercurial Dental Rubbers and the strongest.

A. 1 BASE (Rich Brown)

RED, LIGHT AND DARK MAROON

Strongest and most elastic of colored rubbers.

SOLID BASE

For lower dentures, allowing for rigidity and thickness, overcoming porosity.

WALKER'S GRANULAR GUM

Original formula.

More and more of Ash's Dental Rubbers are sold every month. The demand is insatiable and increasing.

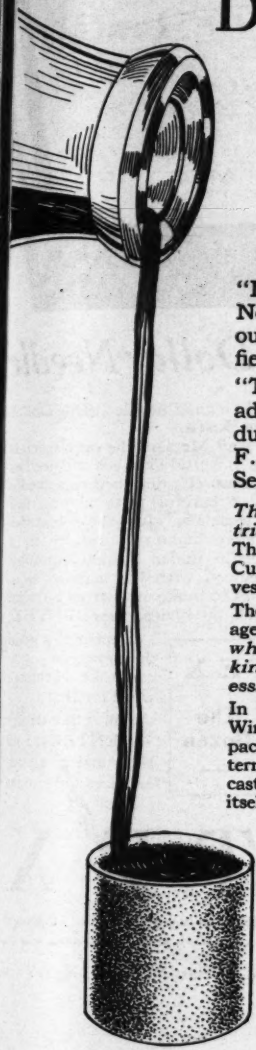
Write for price list covering all our Rubber to Dentists and Laboratories. We make a number of other brands besides those mentioned above.

Claudius Ash, Sons & Co.

U. S. A. Inc.

1 and 3 Union Square, New York

Dr. Gilmore endorses CUPEL method



"I have been using the Cupel No-Plaster method since it came out and can give it my unqualified endorsement.

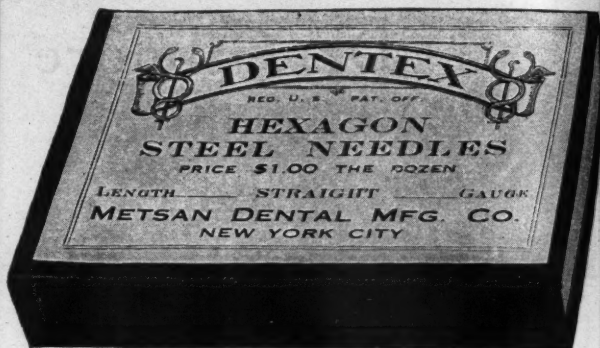
"The new paint is a decided advantage in the matter of producing definite margins."—Steele F. Gilmore, Indianapolis, Ind., Sept. 1, 1923.

The Cupels are now put up in a trial package retailing at \$3.00. This package contains 24 medium-size Cupels with sufficient No-Plaster Investment Compound for use with them. Then with each trial and regular package we now include a casting device which renders attachment to any kind of casting machine unnecessary.

In addition to a package of Sprue Wires, we now also include in each package a bottle of ready-mixed Pattern Paint, the use of which insures castings as smooth as the wax pattern itself.

Casting device and pattern paint will be sent free on request, to present Cupel users.

Lee S. Smith & Son Mfg. Co.
Pittsburgh, U. S. A.



Here's that good Dollar Needle

You've been looking for a needle which will give you good every-day service, and yet cost you but one dollar a dozen, haven't you?

Dentex is just the needle you've been looking for.

Not "fussed up", without any of the fine details of the highest grade needles, Dentex is the needle which will give a dollar's worth of service,—and then just a little more. Many dentists want a good, reliable needle, like the Metsan, but their work does not require as finely and delicately finished a needle. To these dentists we

offer a good needle at One Dollar the Dozen.

And Metsan, the only specialist in dental syringes and needles exclusively, designed this needle after careful tests in practical experience. Just those features which make for service in a needle under ordinary circumstances, with just enough fineness to make it a trusty friend adequately describes DENTEX.

Dentex is a good dollar needle—you can take Metsan's word for that.

Ask your dealer —DENTEX, \$1.00 the dozen, standard sizes and gauges

DENTEX
\$1 The Dozen
 —

DENTEX

Write for a complete booklet describing dental syringe and needle equipment

Metsan Dental Mfg. Co.,
 Please send free booklet:

211-O East 62 Street, New York


Dr. Address

..... Dealer




Small Cuspid
Length of Band
11/16"
\$0.90 each


Cuspid
Length of Band
13/16"
\$0.90 each


Bicuspid
without
Occlusal Rest
Length of Band
15/16"
\$1.00 each


Bicuspid
with
Occlusal Rest
Length of Band
15/16"
\$1.00 each


Molar
Length of
Band 1"
\$1.10 each


Large Molar
Length of Band
1 5/16"
\$1.50 each

**Fit Perfectly—
Save Time—
Cost Less—**

Strong, rigid and resilient,
Williams Ready-Made
Clasps stand bending and
fitting without breaking.

They are made from a
tough, high-grade alloy of
gold and platinum and can
be trimmed or ground if
the occlusal rest is not
wanted or the band is too
long.

In ordering specify rights or
lefts, upper or lowers.

**THE WILLIAMS GOLD
REFINING CO.**

2978 Main Street Buffalo, N. Y.
Bridgeburg, Ont.

Williams Golds

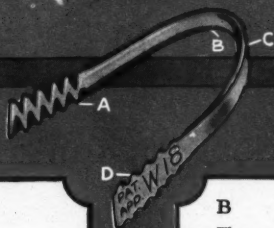
Plates
Shells
Wire

Solders
Clasps
Nuggets

Casting Gold
Lingual Bars
Filling Golds

(See announcement on reverse side)

Why most dentists specify **Williams Lingual Bars**



A

Corrugations on one side only. Firm anchorage with less space in the vulcanite.

B

Flat anterior surface gives maximum strength without bulkiness or impingement on the gum tissue.

C

Angular bevel conforming to the gum tissue.

D

Serrated edges without which proper anchorage in the vulcanite is impossible.

*When ordering Lingual Bars
always specify "Williams"*

Prices:

18-K GOLD PLATINUM

Long, \$4.00 Medium, \$3.75
Short, \$3.50

16-K GOLD PLATINUM

Long, \$2.50 Medium, \$2.25
Short, \$2.00

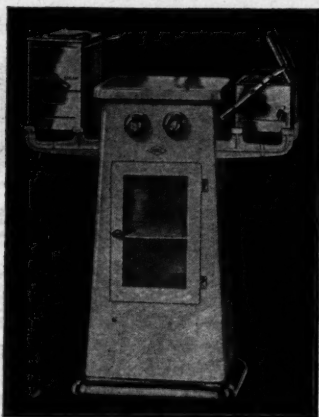
GOLD CASED (20% 18-K)

Long, Medium, Short, \$1.50

Per Dozen, \$15.00



"Every patient looks for a
sterilizer"



Show your patients how you Sterilize

Their interest in such matters is keen.

They like to witness an actual demonstration.

Seeing is believing, but to be shown is better yet.

An up-to-date sterilizer like this No. 1414-A convinces a patient and is a godsend to you in its convenience.

It sterilizes instruments, root canal material and water. Send for new catalog.

.....
Please send me, without obligation, data on your sterilizer No. 1414-A

Dr.

Address

Dealer

CASTLE

Sterilizers for Dentists, Physicians and Hospitals.

WILMOT CASTLE CO., 1158 University Ave., Rochester, N.Y.



Yesterday —and To-day

—“holding the mirror up
to Nature” is another way
of driving home the truth.

IF we could bridge the gap of ages between man as we know him to be and pre-man as we believe he was, we should discover certain characteristic phenomena which, from their frequent occurrence, we should call “constants,” principal among them being the forms of the teeth.

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It would seem that the three typical forms of teeth (Square, Tapering and Ovoid), which have persisted through all the eons of man's upward climb, were so "self-evident" that we could dismiss the subject with a simple statement and not feel constrained to iterate and reiterate the facts, but greater than we have fallen into that error.

Trubyte

—the teeth for Yesterday, To-day and To-morrow.

We know that once "these truths" become "self-evident," you will recognize the scientific accuracy which lies behind the beauty of Trubyte teeth, and you will experience a sense of security as well as of satisfaction in their use.

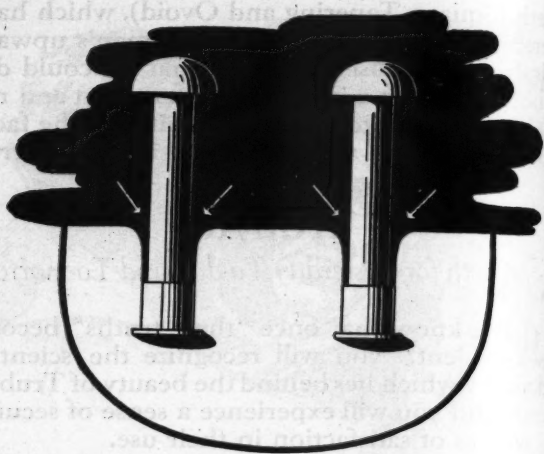
Let us then face the facts and use them to our advantage. We know that Trubyte teeth embody the typical forms and modifications found in human teeth during all recorded time. We know that when teeth embody the outlines, contours and proportions of the human face there is a harmony effected that is pleasing even in the absence of actual physical beauty, and we know that Trubyte teeth do that.

All of the leading denture specialists and thousands of the most successful dentists in the world to-day are using Trubyte teeth with confidence in the foregoing facts, and they feel that "if there are ever better teeth than Trubyte, they will still be Trubyte teeth."

RESTORATIONS  THAT RESTORE

The DENTISTS' SUPPLY COMPANY
of NEW YORK

(Trubyte Teeth are known as Anatoform Teeth in Europe, Great Britain and her Colonies.)



CUSHIONED

WHEREVER metal comes in contact with porcelain it is rather hard on the porcelain.

For instance, where the pins emerge from the porcelain in the average tooth there is an unrelieved edge that is subject to chipping at the least bending of the pins. One of the strongest points about Twentieth Century Soldered-in-Pins is the fact that

There is a cushion of vulcanite all around the pins where they emerge from the porcelain.

The arrows in the illustration point to the cushioned area and it will be seen how the porcelain is protected from any impingement of the pins. This is just another reason for the great strength and consequent popularity of Twentieth Century Solila teeth.

From the Split-Ring anchorage to the Cushioned porcelain, Twentieth Century Solila teeth are mechanically correct and dependable.

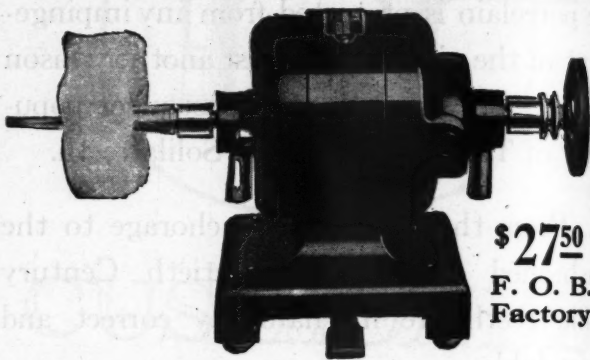


Your Dealer or Direct

THE DENTISTS' SUPPLY COMPANY
NEW YORK

DUMORE

LATHE for DENTISTS



\$27⁵⁰

**F. O. B.
Factory**

SPECIFICATIONS AND EQUIPMENT—Motor—1-8 H. P. Universal. Speeds—2000 to 6000 R. P. M. Controlled by rheostat in motor base. Shaft tapered at both ends. Take Ritter chucks or special 5-32" Goodell-Pratt chucks. Complete equipment includes arbor and emery wheel, tapered spindle and rag buff, 8' cord and attachment plug.

BUILT for speed and service, the DUMORE Lathe Motor is everywhere accepted as the quick, economical solution to the dentists' polishing and buffing problems.

Operating on alternating or direct cur-



rent the DUMORE is unusually available. The best dental supply house carry DUMORE Lathes. We shall be glad to furnish you with more complete information and source of supply if you will write us today.

WISCONSIN ELECTRIC CO.
3263 A Sixteenth Street Racine, Wis.

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Get this box!

Southern California dentists quite some time ago discovered that the metallurgical knowledge accumulated by the Wilkinson Company had resulted in the production of dental golds of peculiarly pleasing quality and characteristics. With a view of aiding dentists elsewhere to make the same discovery the Californians made, that we are offering this special assortment of Wilkinson golds, contained in a genuine California Redwood box.

The box contains:

5 dwt. 22-K Gold Plate.....	\$5.50
5 dwt. 18-K Gold Solder.....	4.50
1 dwt. 20-K Gold Solder.....	1.00
1 dwt. 22-K Gold Solder.....	1.05
4 dwt. No. 2 Casting Gold for Ind. Inlays.....	5.60
4 dwt. No. 8 Casting Gold for Hard Inlays and Small Saddles.....	5.80
4 dwt. No. 4 Cast Gold for Full and Partial Cast Dentures.....	5.40
4 dwt. No. 10 Cast Gold for Cast Clasps, Bars, &c.....	7.00
4 dwt. 22-K Cast Gold for Cast Inlays, Bridgework, &c.....	4.48
2 dwt. 14-K Clasp Met Wire for Posts.....	4.40
Envelopes for scrap and a Chart of Useful Information	
Total:	\$44.73

Shipped and billed direct from our laboratories or through any reputable dental dealer.

The price represents standard retail value of material contained. Why not take advantage of this offer and secure this handsome, partitioned California Redwood box in which to keep your gold supplies? The useful information contained in the Chart is well worth while in itself.

Please send box advertised in October *Oral Hygiene*, at \$44.73, to be billed through:

Dealer's name and address.....
 No.....
 State.....

THE WILKINSON COMPANY, Metallurgists
 LOCK BOX 303, SANTA MONICA, CALIFORNIA
 Reference: First National Bank of Los Angeles, Cal.

Countless Thousands



have been benefitted and relieved of pain and the fear of an operation by

SOMNOFORM ANAESTHESIA.

SOMNOFORM produces a natural sleep, from which your patients awake refreshed and invigorated.

After over twenty years, SOMNOFORM has been gaining increased confidence of both the Dental and Medical Profession.

With SOMNOFORM properly induced—

Shock is eliminated.

There is no hysteria.

No unpleasant post operative results occur.

There is perfect relaxation.

Economy and simplicity of administration are paramount.

YOUR SUCCESS AS AN ANESTHETIST IS INSURED WITH SOMNOFORM AND THE STRATFORD COOKSON SURGICAL INHALER.

Send me reprint and Technic Chart on the administration of SOMNOFORM.

Name

Address

Dealer

**STRATFORD - COOKSON
COMPANY**

42nd & Ludlow Streets
Philadelphia, Pa.

Pip!!

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ollar

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The **ECONOMY LAMP SOCKET** saves you \$1.35 to \$2.35 on each bulb—for, with it, you can use 15c flash-

light bulb. Assembles to instrument handle. May be sterilized. Sent on 10 days' trial; mention dealer. \$4.50. "Best in 16 years," says California dentist; Manufactured by **HOMER PENNER, D. D. S.** Frankfort, N. Y.

Economy Lamp Socket

(For Your Switchboard Mouth Lamp)

1912 **Pentz 1923**

STERILIZERS

Destroy Bacteria on instruments and Dressings quickly by superheated steam, less than two minutes. The Sanitary Way used by many leading Colleges, Public Health and Industrial Corps, Clinics, and thousands of leading dentists.

Has White Porcelain Enamel Jacket and for Booklet. Consult your dealer or write us. **THE SANTISEPTIC MFG. CO., Inc.**, 11 Beach Street, Stapleton, Staten Island, N. Y.

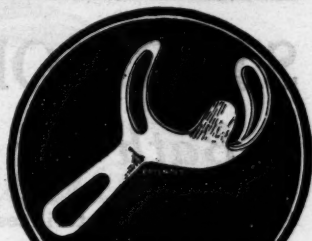


Auto-Clavette Type A. W. P.

Aseptic Glassware



Zee & Smith 'S' Son Manufacturing Co
Pittsburgh, U.S.A.



JELENKO Ready-Made CLASP

PATENTED

THE Jelenko Ready-Made Clasp embraces all the good features of the plate clasp, the wire clasp, the hairpin clasp and the cast clasp.

It has the strength of the wrought plate clasp with the close adaptation of the cast clasp. Its high platinum content gives it the resiliency of the wire clasp and permits extreme bending without breaking. Its hairpin form assures maximum retention, covers the minimum amount of tooth surface and makes possible easy adjustment to meet unusual conditions.

Your dealer will gladly show you a set of Jelenko Ready-Made Clasps. A brief examination will convince you of the truth of every claim made for them.

"Technique Book" on request.

Sold by better dealers everywhere

J.F. JELENKO & Co.
136 West 52nd. St. New York, U.S.A.

STERO-OIL—

a Bath for Handpieces.

How STERO-OIL sterilizes, cleans and oils

Do your handpieces or bur chucks ever stick or "freeze?" Oil ever run out and blacken the patient's lip? Handpieces wear out quickly or have to be repaired frequently? Haven't you found them hard to sterilize effectively? Ever worried about saliva working into the gears and being transmitted to the next patient?

STERO-OIL is used as a bath which *sterilizes, cleans, oils and prolongs the life of* all contra and right-angle handpieces in *one* simple operation. Just carry handpiece to bottom of bottle and run for a minute or two—now wipe dry—handpiece is *clean, sterile, lubricated* and ready for the

next patient. No further oil necessary; gives handpiece pleasant, agreeable odor. Use it after each patient. Price 75c, on money-back basis return it after 30 days if it doesn't satisfy.

Users express delight

"—after using for 6 months am still enthusiastic—never had a handpiece stuck STERO-OIL makes it easy."

"—delightfully refreshing to patient. We gratefully acknowledge our obligation to you in placing STERO-OIL on the market."

"I take pride in informing my particular patients of its efficiency."

"—satisfaction has been 100%. The handpieces are clean at all times, not greasy, never stuck up, but always ready to go."

"—use of STERO-OIL will surely add years to life of instrument, as well as protect health of patient. Every dentist owes you a debt of gratitude."

"—a life-saver for handpieces and time saver for ourselves. Our handpieces are always clean, sterile and ready for use."

"It takes the grit out and makes lubrication automatic."

STERO-OIL CO., 447 Spreckels Building, San Diego, California:

☐ Please send one bottle of STERO-OIL—upon receipt of which I will return 75c in the mailing tube in which it comes, or

☐ Charge through my dealer

Dealer's name.....

Dealer's address.....

My name.....

My address.....

I will give STERO-OIL a 30-day trial and return for full refund if not satisfactory.

COMPARE

Arrow-head LINGUAL BARS



PPOINT by point with any other lingual bars on the market.

And see how much less space the **ARROW-HEAD** ends occupy in the vulcanite.

See what stronger anchorage is obtained by virtue of the flared notches at the top and bottom of the ends and the **ARROW-HEAD** cut-out.

See how much stronger and stiffer they are. The illustration shows their new and superior features, but you should try them if you haven't already done so.

Order a few bars and give them a good trial. We feel sure you will be pleased with them.

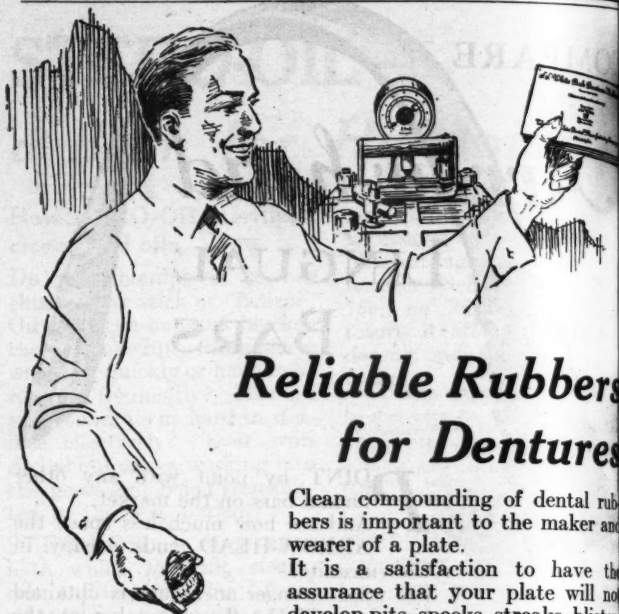
I. STERN & COMPANY,
104 W. 116th St., New York.

You may send me the following Arrow-head Lingual Bars:

Large Medium Small
Through my dealer

Dr.
Address

STERN-MADE



**Fourteen Colors
for
Base Plates and
Veneering**

BASE PLATES

Gold Base
Natural Base
Weighted
Black
Brown
Maroon
Red, Dark
Red, Light

VENEERING

Pink, Light
Pink, Medium
Pink, Special Light
White
Pink, Granular

ENTIRE PLATE

Pink, Denture "B"

Reliable Rubbers for Dentures

Clean compounding of dental rubbers is important to the maker and wearer of a plate.

It is a satisfaction to have the assurance that your plate will not develop pits, specks, streaks, blisters or weaknesses in the vulcanizing. Only the best materials enter into S. S. White Rubber compounds; care and cleanliness attend every operation in their production.

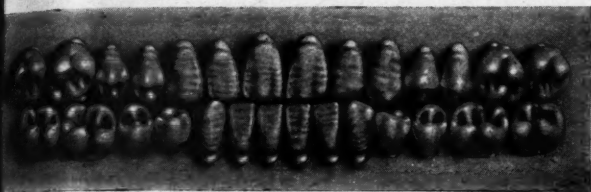
S. S. White Dental Rubbers

have a reputation for uniformity and reliability. They are safe to use on the best of work and reasonable enough in price for all your work.

Handsome Booklet "Higher Standards in Dental Rubbers," free on request.

The S. S. White Dental Mfg.
Company

"Since 1844 the Standard"
Philadelphia



Lifelikeness in Artificial Dentures

In the better class of artificial dentures, lack of lifelikeness is not, cannot be, tolerated; it would be counted a disfigurement.

S. S. White "Natural" Porcelain Teeth provide all the elements for the making of lifelike dentures: porcelain that in texture, translucence, and coloring imitates the appearance of the human tooth more closely than has ever before been done; forms that reproduce human teeth and permit whatever variation of alignment seems desirable.

Use them and you cannot help putting lifelikeness into the dentures of your patients.

Send for our booklet, "Character in Porcelain Teeth;" read the complete story of this latest advance in artistic dental prosthesis.

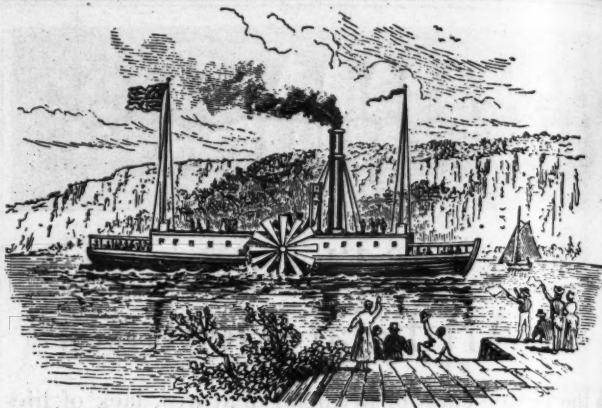
S. S. White "Natural" Porcelain Teeth

Combination Set of 14 - \$2.60

The S. S. White Dental Mfg. Co.

"Since 1844 the Standard"

Philadelphia



when Robert Fulton—

first sailed the Clermont up the Hudson, he was ridiculed and laughed at, his effort being termed "Fulton's Folly."

GUM LYKE has also had its "Fulton's Folly" period but after due trial it has steamed to success.

The profession has tested the merits of Gum Lyke, and has found it to be a perfect reproduction of the human gum for GUM LYKE is gum like.

Your dealer can readily supply you from his stock—\$2.50 the quarter pound.

If you have not as yet used Gum Lyke, we thank you to ask us for a free sample.

INDUSTRIAL RUBBER CORPORATION

LONG ISLAND CITY, N. Y.

Makers of better dental rubber

REDI MADE ROOT FACINGS

THEY ADD A NEW JOY TO BRIDGE WORK

- ① Root extension baked integrally with facing (Stronger)
- ② Only glazed Porcelain contacts soft tissues (Sanitary; Non-irritating)
- ③ Attachment situated in strongest part of Porcelain, and at an angle to facilitate replacement
- ④ Accurately reamed and lapped
- ⑤ Pin exposed only on Lingual (A self cleansing surface)
- ⑥ Accurately lapped
- ⑦ A standardized surface
- ⑧ Angle standardized
- ⑨ A standardized surface
- ⑩ Positive Lock
- ⑪ Entire incisal third of facing may be removed without weakening facing
- ⑫ In abnormal cases incisal may be bevelled, affording additional protection to facing
- ⑬ In cases with normal bites, incisal may be left flat

Patent Applied for U.S.A., Canada and Principal Foreign Countries

FOR COMPLETE DESCRIPTION, INDICATIONS, TECHNIQUE AND ADVANTAGES

FULLY ILLUSTRATED

Address **DIXIE DENTAL MANUFACTURING COMPANY**
BROWN-MARX BUILDING BIRMINGHAM, ALA., U.S.A.

BOIL THE KLETT!

The Klett "Novo-Syringe" can be sterilized by boiling, without taking it apart. Piston and plug are made of Novo-Rock, ideal because it has less expansion than glass. A ball-joint connection reduces leakage and breakage to a minimum. No wrenches are required. The Klett is built to outlast any other construction and keeps its accuracy. Be sure to get details; use coupon.



Klett Mfg. Company,
202 E. 46th St., New York.
Please send me all data.

Dr.
Address

Forhan's

FOR THE GUMS

An Aid, Not A Substitute

Naturally, we have great faith in the efficacy of Forhan's For the Gums as a daily aid to the dentist in the treatment of Pyorrhetic conditions.

But good as Forhan's For the Gums has proved to be, it cannot replace the services of a dentist.

That's why we advise the public, in our advertising, wherever possible, to go to the dentist for tooth and gum inspection.

We do this for no other reason than because it is the best advice that anyone can give.

Pyorrhea is too strong and menacing a public foe for one agency to handle single-handed.

We believe, moreover, that the public must be educated in oral hygiene if Pyorrhea is to be intelligently fought, and it is to this end that our advertising is written.

Forhan's Pyorrhea Astringent is compounded to the formula of Dr. R. J. Forhan, and sold only to dentists to insure its restriction to professional use.

Formula R. J. Forhan, D. D. S.

Forhan Company

New York, N.Y.

FORHAN'S, LTD.
MONTREAL

I tried it--

and was surprised at the excellent results obtained in the first case, *pulpitis acuta totalis*.

that is what a pleased dentist wrote concerning

Jodo-Formagen Cement

which has for over twenty years filled by its results the claims made for it as a successful preparation for the treatment and preservation of exposed and even injured pulps.

You try it--

regular size package, sufficient for one hundred applications will cost you only two dollars.

Gustav Scharmann,
1181 Broadway
New York City



Literature on Request



WHEN you pick your casting out of the investment do you ever hold your breath and wonder whether all the time and care and skill you put into carving the wax pattern has been wasted?

Dentists and laboratories who use **Skel-Cast** never worry. They know it always casts true and smooth.

Skel-Cast is especially indicated for casting very thin plates. While it may not be the cheapest casting gold per dwt., it costs less per plate because you can cast it thinner than any other gold and still get a stronger plate.

per dwt. \$1.35

Sold by better dealers
everywhere

J.F. JELENKO & Co.
136 West 52nd. St. New York, U.S.A.

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\$35.00 installs the Wappler Junior

A FIRST payment of only \$35 installs the Wappler Junior if you have alternating current; on direct current the first payment is a trifle more, \$42.50. A single fee often covers either amount. And the machine's earnings readily take care of subsequent payments, as a profit. When you send cases out to be X-rayed, don't you often wish you were equipped to take care of them yourself? Some of the referred

cases never come back to you; it is so difficult to control referred cases. Once you realize the ease with which you can pay for the Wappler Junior Dental X-Ray Unit, we believe you will seriously consider this angle of the conduct of your practice.

And, while you are considering it, let us send you complete data regarding the Wappler Junior. We won't delegate a salesman to call upon you unless you say that we may. We know you don't want to

settle a question like this as you would the purchase of a pair of forceps, so we won't attempt to rush matters.

In the meantime, be assured that the Wappler Junior is in no sense an inadequate outfit—it is *complete* in every detail. The data which this coupon brings will tell you everything about it.

Wappler Electric
Company, Inc.,
Long Island City,
New York, U. S. A.

**Over 26 years of satisfied
users**

Please send Wappler Junior catalog—no salesman.

Please send representative—no obligation to buy.

Dr.

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The comparative values of Harvard chairs are not measured by Harvard prices. The material in Harvard chairs, brass, bronze, machine steel and malleable iron, contribute the most **EXPENSIVE** material in any corresponding structure, but this larger cost of material is more than counterbalanced by the Harvard organization which dates back **THIRTY-SIX** years and must be measured by that many years of efficiency and experience which spell success in the highest measure.

The **BEST** goods and most **ADVANTAGEOUS PRICES** so commend the goods as to cut down sales expenses, the efficient and experienced organization keep down overhead expenses and experienced workmen and labor saving machines do more accurate work at a tremendous saving of labor, and under present conditions, cut costs to the minimum, all of which enable unsurpassed quality of products and satisfactory profits.

Our heavy and increased business has proven our claim (disputed by others), that a high grade, efficient, beautiful chair, can be made at a reasonable price.

Ask for special folder.

THE HARVARD COMPANY
CANTON, OHIO

Oleosep
in prep
addition
it posse
anesthe
mouth
strength
to sense
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which o
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Dr.....
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DRUGG

Try this/

Oleoseptine Liquid is a great aid in preparing patients, since, in addition to its antiseptic action, it possesses a pleasing, mild, local anesthetic action. Just spray mouth and throat with it, full strength; the patient will be quick to sense the delightful effect. This characteristic of Oleoseptine makes it particularly useful in extraction cases.

Oleoseptine is the oral antiseptic which does not inhibit salivary flow nor act upon the enzyme ptyalin, the starch-digestive principle of saliva. Be sure to mention your druggist in requesting testing package.

The Foster Laboratory,
95 Roseville Ave.,
Newark, N. J.
Please send sample.

Dr.
No.
City
DRUGGIST

ALBORO JELENKO

the New Gold
Platinum-Color

WHEN you would like
to use platinum use
ALBORO.

Being so closely platinum in color that any difference is scarcely discernible, ALBORO is the ideal metal for bridges, crowns, inlays and clasps.

ALBORO is as inconspicuous as platinum in the mouth, costs but little more than gold, is easily worked and will not oxidize.

ALBORO is a platinum-colored gold that conscientious dentists can use with confidence.

PRICES

ALBORO Plate, Discs and Backing—	
per dwt.....	\$1.90
ALBORO Shells—per dwt.....	2.00
ALBORO Cast Inlay—per dwt.....	2.50
ALBORO Cast Clasp—per dwt.....	2.50
ALBORO Wire—per dwt.....	2.15
ALBORO Solder—High Fusing—per	
dwt.....	1.35
ALBORO Solder—Low Fusing—per	
dwt.....	1.25

Literature on request.

**Sold by better dealers
everywhere**

J.F. JELENKO & Co.
136 West 52nd. St. New York, U.S.A.

The Correct Type of Tooth Brush

Made in Home and Pocket Styles

The makers of Pepsodent now also offer the authoritative type of brush. It is made to the specifications adopted by leading dental authorities.

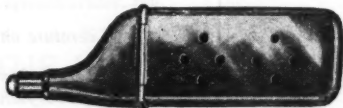
Note the shape, the trim, the separations, rounded tufts, number of rows and length of bristles. All of these details accord with the latest requirements. The brush length is $1\frac{1}{4}$ inches. But the tufts are separate, so one may shorten the brush, if desired, by shaving off one or two back rows.

The Pocket Style Decoater folds into a ventilated metal case to fit the vest pocket or a lady's bag. The case is permanent. The brush part, as it wears out, is replaced by refills.

Home Style Decoater . . 50c
Pocket Style with case . \$1
Refills for Pocket Style . 50c

We will send one Home Style free, or one Pocket Style for 50c, to dentists who will try it.

Decoater Tooth Brushes



Pocket Decoater folds into this ventilated metal case



THE PEPSODENT COMPANY

Decoater Brush Dept.

1104 S. Wabash Ave., Chicago



Clean
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and ge
& Son

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Send
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deal

406

\$50,000.00 Damages!

Mouth Cut by Whirling Tooth Brush, He Asks \$50,000 Damages of Dentist

Fifty thousand dollars for injuries, said to have been inflicted by a revolving tooth brush which became detached and lacerated the flesh under his tongue, was asked yesterday at

has been impeded and he has been unable to work. He has also lost weight from loss of blood and has had frequent

From N. Y. Evening Journal, July 17, 1923

HAKINS CLEANERS ALWAYS SAFE AND EFFICIENT

Clean teeth without lacerating gums or abrading enamel. No spattering; absorbs and carries liquid, powder or paste. Ideal for polishing inlays and fillings. May be used for massaging gums in cases of pyorrhea with engine running on low.

Sold by all Dealers

\$1.00
a Dozen

MIZZY, Inc., Manufacturers, 1 Union Square, N. Y.

Clean Green Carborundum—the purest, the coolest, fastest cutting kind. But be sure it is the original and genuine GREEN. Distributed by Lee S. Smith & Son Mfg. Co., through good dealers everywhere.



KNAPP'S INVESTMENT

Comes in blue cans

\$1.00 per can

Either No. 1 or No. 2

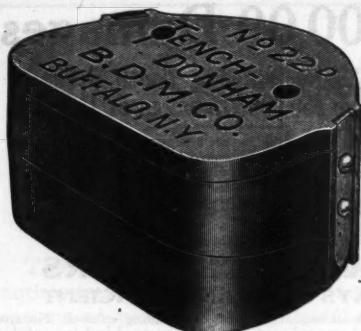
IF you have not yet become familiar with the Knapp Standardized Method of casting, you owe it to your bank account to find out about it.

Send your name and this ad for a copy of "A Standardized Inlay Technic," which tells how to try the method, and we suggest you order one can of each kind of Knapp's Investment from your dealer so you will be all ready to try it when the booklet arrives.

M. F. Patterson Dental Supply Co.

406 Sixth Ave. So.

Minneapolis



No. 22-D Another Tench- Donham

Inside Dimensions
Front to back 2 $\frac{13}{16}$ inches
Side to side 3 $\frac{13}{16}$ inches
Height 1 $\frac{1}{2}$ inches

BUILT for those who are looking for the utmost in dental flasks.

It has the same general dimensions as the No. 22-C Tench-Donham, but differs in point of depth. It is more shallow, to permit placing the cast directly upon the metal, this being desirable in some cases.

The fit is perfect, the strength ample and the size generous.

And it has other features which contribute to its perfection.

See it at your Dental Dealers.

Price

Brass.....\$6.40

Iron.....\$4.40

(Can be used in $4\frac{1}{2}$ inch Vulcanizer only)
Ask for copy of Booklet No. 1 about Flasks



Registered U. S. Patent Office

Buffalo Dental Mfg. Co., Buffalo, N. Y.

Why Dentists buy CRESCENT Temporary Stopping

¶It adheres closely to the cavity walls. It will not contract after setting. It is impervious to moisture. It will retain its form as long as desirable. It will stand attrition at the temperature of the mouth. It is made of pure high grade Gutta Percha.

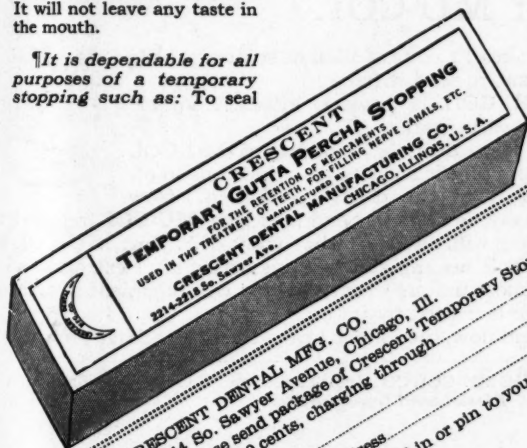
¶It also has the following features which make it efficient: It softens at a low temperature. It is easily inserted, with minimum pressure. It is easily removed. It will not irritate the tissues. It will not leave any taste in the mouth.

¶It is dependable for all purposes of a temporary stopping such as: To seal

medicaments. To fill cavities temporarily. As a permanent root canal filling. For lining cavities which approach a live pulp. Excellent as a separation. For pressing away overhanging gum margins in setting crowns. To fasten ligatures.

¶Put up in round stick form, one ounce to a box. All white, all pink or assorted.

¶Price per box, 30 cents.

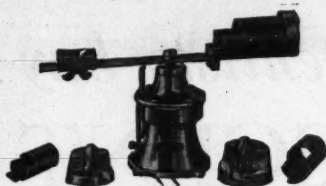


CRESCENT DENTAL MFG. CO.
2214 So. Sawyer Avenue, Chicago, Ill.
Please send package of Crescent Temporary Stopping
at 30 cents, charging through

Dr.

Address

(Fill in or pin to your card)



Better Value
at a
Lower Price

GARDNER CASTING MACHINE

There is no better value in the casting machine world than the Gardner Centrifugal. It will cast accurately, inlays, crowns, bridges, saddles, etc. just as well as any other machine, and better than some. Made to last a lifetime and fully guaranteed.

Only \$27.50 Complete

Send this ad for information

M. F. Patterson Dental Supply Co.

406 Sixth Avenue, So.

Minneapolis, Minn.

A testing package of MU-COL

makes 12 pints of alkaline solution. We want to send it free.

MU-COL is powder, instantly soluble in warm water.

A few dentists, learning of MU-COL from physician friends, induced us to offer it to the dental profession. Now many dentists use and prescribe MU-COL regularly. You will discover what they did: that MU-COL'S quick healing and sedative action after extractions is almost unique—that patients with incipient pyorrhea are benefited by its use.

Sent now, the coupon brings the free package promptly.



THE MU-COL CO., Inc., Tupper and Edwin Pl., Buffalo, N. Y.
Please send free samples.

Buy Direct from Factory—Save Money



Dentist's Smock
41 TH. 9

Angelica garments for the Practitioner and his Office Assistant are known for their high quality, and are sold Direct-from-Factory-to-You.

Styles shown are representative numbers from our line of coats, frocks, pants, dresses, etc., for use in dental offices.

Dentist's Coat

41TH. 9 was developed to supply the demand for a garment distinctively professional. Made of bleached twill, light weight, with indestructible knob buttons attached. Each \$2.00

Assistant's Dress

31TH. 0—a good style for Office Assistants, white twill, with attached indestructible buttons. Each \$2.10

When ordering either add 25c for postage. State chest measure, height and weight for coats; bust for dresses.



Assistant's Gown
31 TH. 0

ANGELICA JACKET CO.

Est. 1878-Satisfaction Guaranteed

ST. LOUIS, MO.
407 Olive Street

(Order from
nearest point)

NEW YORK CITY
29 East 31st Street, Dept. 7.

Gibb's Nuremedy

The quickest, surest and safest method of warding off post-operative pain. It contains no acetanilid, opiate or habit-forming drugs.

Sold by Dental Dealers or Direct.

100 Tablets,	-	-	\$.75
500 Tablets,	-	-	2.90
1,000 Tablets,	-	-	4.75

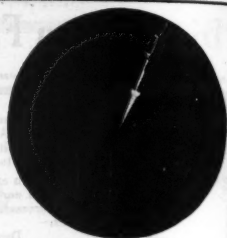
CENTRAL LABORATORIES CO.

4210 OLIVE STREET, ST. LOUIS, MO.

Write for samples.



Prest-O-Torch Brush flame,
temperature 2800 degrees, for
heavy casting



Prest-O-Torch needle flame,
temperature 3300 degrees, for
delicate fusing work

Prest-O-Torch and gas wherever you are

Many modern office buildings are not piped for gas. There is no need for it. Most dentists prefer Prest-O-Lite Gas any way.

Prest-O-Torch fed by Prest-O-Lite Gas meets the requirements of the progressive dentist as nothing else can. It gives every size flame from needle point to brush at the touch of your finger. Any heat 2800 to 3300 degrees.

Wonderful for restoration work, as it melts platinum or gold without oxidization.

Ask your dental supply house about Prest-O-Torch and Prest-O-Lite Gas. If he can't supply you, write us for the interesting book "Intense Heat Perfectly Controlled."

Over 22,000 Prest-O-Lite Service Stations exchange empty tanks for full ones. You pay only for the gas.

Prest-O-Lite Gas and Prest-O-Torch

THE PREST-O-LITE COMPANY, Inc.

Small Tank Sales Department
INDIANAPOLIS, INDIANA

New York Office: 30 East 42nd St. Pacific Coast Office: 599 Eighth St., San Francisco
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Are You

A Careful Dentist?

Do your patients jump and cringe at the prick of the needle?

Progressive dentists are using TANAZINE, as a local anesthetic and to stain and sterilize the area to make the first prick of the needle painless.

Circular and information gladly given. It is sold on a positive satisfaction or money back basis. You can secure a liberal supply from your dealer for a small amount.

Dental Pharmaceutical Co.

Inc.

HOLTON, KANSAS

Connecticut Washable Dental Coats

\$6.50
EACH

or three for

\$18.00

Style No. 19
as shown

In White, Tan or Grey silk poplin. Well made, launder perfectly, hold shape and wear well. At your dealers, or by mail prepaid. Give chest measure and sleeve length. Samples and prices of other materials and styles on request.

CONNECTICUT COAT & COVER COMPANY

Dept. H

Shelton, Conn.

Jelenko Cast Clasp Gold No. 6



for
Clasps & Small Bridges

LITTLE removable bridges of the Nesbit and Bonwill types must resist great stress at times and should be cast with a gold especially alloyed to meet these conditions.

There is none better than Jelenko Cast Clasp Gold No. 6.

No. 6 casts smoothly and accurately. Clasps of No. 6, after being in use for years are just as resilient as the day the case was fitted.

No. 6 is the Clasp Gold preferred by careful dentists and laboratories when a gold color is desired.

per dwt. \$1.65

Sold by better dealers everywhere

J.F. JELENKO & Co
136 West 52nd. St. New York, U.S.A.

Have you ordered

McCurdy's Oral Surgery?

New Edition—Just out

Send check for \$3.00

This is a practical reference work on all diseases of the mouth and surgery of the mouth and face for dental practitioners, as well as a text book for students.



Pittsburgh Dental Publishing Company
8103 Jenkins Arcade Pittsburgh, Penna.

Simplifying the Process

ANCIENT as is the art of soldering, unalterable though it may be in its essential principles, yet the process has been simplified and greatly simplified by the invention of Uniflo Gold Solder.

Ordinary gold solder is only material. Uniflo Solder is a perfect soldering instrument, complete in itself. Differing in no way, in outward form, from the flat strips you are accustomed to use, Uniflo carries, securely sealed in its interior, just the right amount of flux to insure perfect flowing. Down to the last fraction, it will be found to function perfectly. It costs no more than common gold solder, either.

Ask your dealer for it, doctor, or send to us, if he cannot supply you.

BAKER & CO., INC.

54 Austin St., Newark, N. J.

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5 So. Wabash Ave., Chicago

Keep your accounts so they can be collected

The CHANDLER

Dental Accounting System

minutely records exact work done—
time consumed—patient's balance—
all collections—
all expenses; summary
gives complete income tax data; prophylactic notices. \$12.50 to \$22.50.
Ask your dealer, write for literature.

H. M. CHANDLER, 200 Fifth Ave., New York, U.S.A.



*Write
For
Data*

No Dental Office Complete Without

HOLG. -- Minute Plate Repair

PERMANENT

REQUIRES NO
VULCANIZING
ALWAYS
READY FOR USE



STRONG AND DURABLE

For replacing one or more teeth on vulcanite plates instantly without re-vulcanizing; a material that lasts the life of the plate; repairs made while patient waits. Used for many years with satisfactory results. No danger of plate being

distorted, as is frequently the case when vulcanized.

Order through your dealer, or will send direct upon receipt of \$3.00 check

MODERN DENTAL SPECIALTIES CO.

5 So. Wabash Ave., Chicago, Ill.

A Dependable Germicide At the Office and At Home

Sodiphene

TRADE MARK REGISTERED

"First Aid for the Family"

More than an Antiseptic—a Healing Germicide

Dentists who have given Sodiphene a thorough trial are almost daily finding new uses for this dependable germicide which gives an alkaline reaction and has marked local anaesthetic properties. They have come to place a dependence upon it, a dependence which is merited.

As a result of the success of Sodiphene in the Dental Office, dentists have found it a true first aid for the home. It proves an efficient healing agent for cuts, burns and bruises and an excellent safeguard against fatal contagions when used as a daily mouth-wash and gargle.

If you have not given Sodiphene a thorough trial, send for a liberal professional package. Address—

THE SODIPHENE COMPANY

928 Central Street

Kansas City, Missouri

A Word of Appreciation

We owe a large measure of the success that has attended CALOX, the Oxygen Tooth Powder, the sales of which are now the greatest in its history, to members of the Dental profession, whose continued prescription and recommendation have made CALOX a household word in tens of thousands of homes in the United States and abroad.

Gentlemen, permit us to express our deep appreciation of the good will you have manifested and are still manifesting toward CALOX Tooth Powder and the house of McKesson & Robbins.

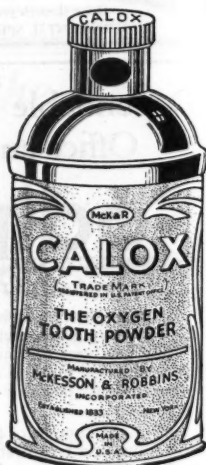
CALOX never disappoints.

We do not claim that it will cure pyorrhea or acid mouth, as the Dental profession know, but we do say in all sincerity, that CALOX is a good, honest dentifrice that will actually produce results for the dentist.

As a faithful adjunct in

prophylaxis, we call your attention to McK&R Milk of Magnesia, a true colloidal salt, with a perfect affinity for free acids, forming an alkaline coating over the teeth and protecting the enamel of the tooth surface in both a mechanical and a chemical way.

A sample of either product will be supplied on request.



MCKESSON & ROBBINS

INCORPORATED

Manufacturing Chemists

ESTABLISHED 1833

NEW YORK CITY

Brushing Cleans the Teeth For a Few Minutes Only

No matter how often the teeth are brushed, the acids of the mouth soon afterwards renew their attack on the enamel. Brushing does clean momentarily, but brushing alone cannot bring about satisfactory oral prophylaxis.

Only the mouth glands, properly stimulated, can keep the mouth clean after the teeth have been brushed. They must be stimulated because the soft, cooked diet of to-day does not afford sufficient exercise to keep these glands normally active. They no longer secrete a flow of alkaline saliva sufficient to

overcome the destructive acids which are constantly forming.

Pebeco Tooth Paste acts directly upon these glands to bring about an immediate and prolonged increase in their secretion of normal, alkaline saliva. This counteracts the acids of decay and washes tiny particles of fermenting foodstuffs from between the teeth.

Pebeco is an excellent cleanser, of course—but it is more than that: it causes the mouth to stay clean *after* the teeth have been brushed.

PEBECO

REG. U. S. PAT. OFF.

TOOTH PASTE

Have you ordered your 1924 Diary yet?

Manufactured only by

Lehn & Fink, Inc.

635 Greenwich Street

New York City



Now Available to Dentists!



Sep-tox

AN INSTANTLY soluble tablet for use in healing and sterilizing the mouth and gums. An innovation in antiseptics—non-poisonous—non-caustic—mildly astringent and refreshing to the taste. Does not coagulate albumen. An ideal solution for use after Dental treatments and operations.

SEP-TOX utilizes a new principle in antiseptics, the active property being $C_9O_7ON_{12}$ H_2SO_4 . It is more powerful than carbolic acid yet is absolutely harmless and does not injure tissue, even in strongest solution. A few tablets of SEP-TOX, given to each

patient for home use after extractions and operations, will positively insure your work against infection and will do much to heal the tender and bruised gums.

Orodyne

A NEW AND distinctly superior compound which eliminates post-operative pain without producing any harmful reaction on the heart or stomach. **NON-NARCOTIC! NON-TOXIC!** Contains no aspirin, acetanilid or any drug which tends to prove depressing or irritating.

The use of ORODYNE in a few cases will demonstrate to you its exceptional superiority as a premedicament and eliminator of post-operative pain.

Special Introductory Offer—So that every Dentist may become acquainted with SEP-TOX and ORODYNE, a special introductory offer has been arranged whereby a bottle of each of these products, containing 100 tablets each, together with dispensing boxes, etc., will be mailed, postal charges prepaid, for \$1.00. Only one order at this price accepted from each Dentist.



When a Kindness Pays Big Returns

BY THE USE OF ORODYNE and SEP-TOX you can easily guard your patient against post-operative pain and insure the injured tissue against infection during the period of recovery.

This precaution renders a double service. It serves you by eliminating the risk and grief from your work. It serves your patient by affording him a definite relief—a few tablets to take home with him which will alleviate the pain and heal the bruised and tender gums. It is a small service but it goes a long way towards building up good-will and a successful practice.



SEP-TOX and ORODYNE are products of a nationally known Physician and Chemist (name on request), a man who has placed before the medical profession a number of preparations that are now in international use! In his latest experiments he was assisted by Winkworth & Company, pharmaceutical manufacturers of Detroit, who have now been selected to introduce SEP-TOX and ORODYNE to the Dental profession.

Use this Coupon for Special Introductory Offer

WINKWORTH & COMPANY, 1747 Cass Avenue, Detroit

Please send your introductory offer of one bottle, 100 tablets of SEP-TOX, and one bottle 100 tablets ORODYNE together with dispensing cartons and complete directions. *Special price \$1.00.*

Dealer.....

Name of Dentist.....

Address.....

City.....

State.....

WINKWORTH & COMPANY
Pharmaceuticals

1747 Cass Avenue—Detroit, Michigan



A Mark of Progress

The Installation of a Model "CDX" Victor Dental X-Ray Apparatus

100% Electrically Safe and Shock Proof—no exposed high tension wiring. All low and high tension circuits "grounded." All contacts and connections under cover.

Exceptionally Compact Design. Occupies only slightly more space than a standard dental engine installation.

The Same Range of Service as is obtainable from any cabinet type of X-Ray apparatus employing the Right Angle Coolidge Tube.

Conserves Space, Time and Worry

Two years have been spent in checking durability and practicability in order to insure 100% perfection in design and satisfaction to the customer.

Descriptive bulletin on request

VICTOR X-RAY CORPORATION

Dental Department

236 S. Robey St., Chicago, Ill.



There may be a difference of opinion as to the merits of various systems of articulation but there is no question that

JUSTI

True to Nature

TEETH

can be adapted to all systems.

Try them and satisfy yourself.

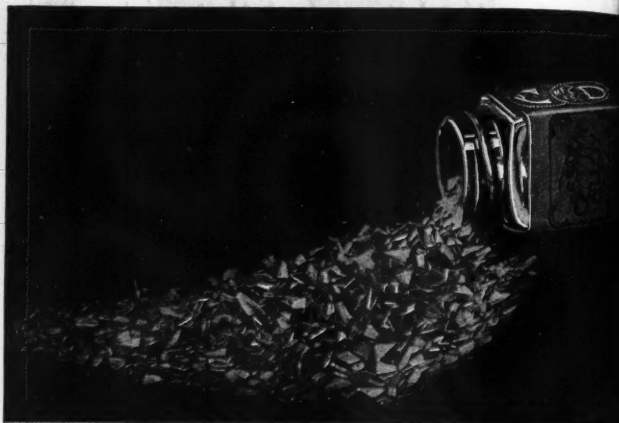
H. D. JUSTI & SON

1301-03 Arch St., Philadelphia

Branch, 159 N. State St., Chicago

Crescent Alloy

THE TOOTH SAVER



Has been used by dentists everywhere for more than 30 years, which is best evidence of dependable quality.

5 oz. jar \$9.00—1 oz. bottle \$2.00

At all Dental Depots

1 UNION SQ.



NEW YORK

CAUTION—Crescent Alloy is Not Genuine without our Trade Mark.

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self-r
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chair
satisf

Harry J.
341 East
Chicago,
Pleas
Work ad
Dr.
Street
City and



"I Love to Pay Bills"

Most of us would voice that sentiment—if income exceeded outgo to a greater extent than is often the case.

Personal bills, household bills, office rent, assistant's salary, supply house bills, etc.—are with us constantly and the best of men are sometimes unable to promptly meet these obligations.

Many dentists who are the soul of honor are nevertheless classed as slow pay by their creditors for no other reason than that these men are not securing the remuneration to which the high character of their operative work entitles them.

On the other hand more than three thousand members of the profession through applying the Bosworth Efficiency System to the conduct of their practices, have reconciled the problem of income and outgo to an extent which enables them to make prompt settlement of their bills. These men have peace of mind, they have some of the luxuries that make life worth while and their self-respect does not suffer from any realization that credit men look askance at their accounts.

Even though your practice is at present on a satisfactory financial footing, it is highly likely that the Bosworth Efficiency System will enable you to reduce the amount of time spent at the chair while maintaining or perhaps even increasing your present satisfactory income.

The coupon is provided for your convenience

Harry J. Bosworth Company,
341 East Ohio Street,
Chicago, Ill.

Please send me details regarding the Bosworth Efficiency System and Class Work advertised in October ORAL HYGIENE.

Dr. _____

Street _____

City and State _____

Dr. Riddle's Universal Dental Matrix Retainer*For Dentists of Precision*

5 seconds to apply band. Curved band (1-2500 in. thick) tough and plastic.



Especially adapted for step cavities, amalgam restoration and gold inlay work. Can be slipped between all contact points. Quickly and easily adjusted. Used by leading dentists the world over.

\$3.00 with 12 bands. Extra bands 25c dozen.

Your dealer or direct.

RIDDLE & WISE

St. Francisville, La.

GOLD TEETH for ARTIFICIAL PLATES

Send for circular showing sizes and quoting prices. They make plate work look like crown and bridge work on natural teeth. Used also for dummies on bridge work. Cost less to buy than to make.

NELSON GOLD TOOTH CO.

No. 280 Henry Street, Brooklyn, N.Y.



Get the Free Sample—then you will know why nearly a quarter million jars have

been used by the profession for abscessed teeth. J. A. Sprague & Co., Columbus, Ohio.

MASEL'S

Seamless Ready-Made
Gold Crowns

are made by semi-automatic machines which produce crowns uniform in thickness, size, shape and weight.

Let us tell you more about them and how you can secure this crown gauge free.



**Masel Dental
Laboratory**



1108
Spruce St.
Philadelphia, Pa.

French's Dental Plasters

Still lead in quality and economy. We now have the

WHITENESS

that the profession demands. We have always had the practical qualities. During the war we were unable to furnish the color.

NOTE

Regular: for general work
Impression: for quick working
Slow Setting: for vulcanizing.

Samuel H. French & Co.
Philadelphia, Pa.

EST. 1844 INC. 1920

A skilfull, painless operation—but then—

What assurance is there that post-operative pain will not develop? When that happens, how quickly your skill is forgotten!



ORAPAIN (Searle) is being widely used by the profession to control post-operative pain and to quiet the type of nervous excitement that so frequently follows an operation.

ORAPAIN is so economical to use that dentists are dispensing it freely; the cost per operation is usually less than a dime.

We want you to know and use ORAPAIN, hence the coupon offer.

ORAPAIN is packaged 100 tablets to a bottle and with each bottle we give you, FREE, twenty dispensing envelopes for your convenience. Price per hundred, \$1.00. Order a bottle from your supply house or send coupon to us for sample.

G. D. SEARLE & CO.
4618 Ravenswood Avenue
Chicago, Ill.

Check, Sign and Mail this Coupon

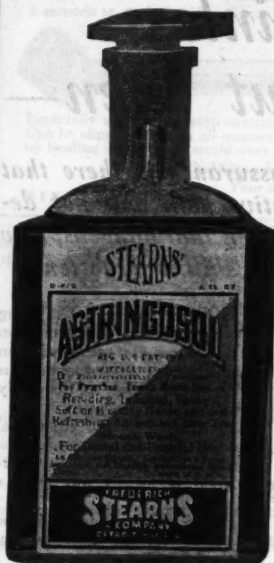
D. Searle & Co.,
18 Ravenswood Ave.,
Chicago, Illinois

and me the following as checked—

- ☐ Bottle of 100 ORAPAIN Tablets
☐ Free Sample of ORAPAIN Tablets

Name.....
Address.....
City..... State.....
Dealer.....

Trench Mouth Disease



For troublesome cases of Pyorrhea and Trench Mouth Disease many successful dentists are using Stearns' Astringosol with great success.

Severe Pyorrhea cases after two years of unsuccessful treatment have been treated by dentists with Astringosol and discharged as cured. Later examination showed no recurrence.

Also useful in the treatment of receding, inflamed, soft, spongy or bleeding gums.

Manufactured by
Frederick Stearns & Co.

Manufacturing Pharmacists

Established 1855

Detroit

Michigan



T. M. C. Casting Machine

Have you noticed, that we are rapidly drifting back to the Pressure Type of Casting Machine?

The reason is this, with the Pressure Type of Machine, you never fail to get "the force used in casting the metal at the right time." We predict that it will only be a matter of a short time, until all Casting Machines will be of the Pressure Type.

In the T. M. C. Machine, we have built one that is simple in construction and at the same time, is built for service.

THE PUMP is of special construction, large, so that three strokes will give sufficient pressure for any ordinary casting.

THE VALVE that releases the air just above the pressure pad, is so constructed that the full volume of air is released instantly. This insures a perfect casting for the reason that you get the full force of the air instantly.

Sold through Dealers

T. M. CRUTCHER
Dental Mfg. Co.

414-423 W. Liberty St.
Louisville, Ky.

Champion
The stand
over half
and fourte
and dome
Champion
Straighten
pull. The
silk swell
a period of
separation
in "O" (E
and No. 3
Champion
the tape
is a patent
have mer

Wire in her mouth—
she is afraid to open it.

Her dentist uses Traction
Cord—she is not afraid to
smile.



Pleases Patients Better than Wire— CHAMPION TRACTION CORD

*Dentists who use Champion Silk Traction Cord
win the hearty approval of their patients.*

SPECIAL OFFER
\$4.40 assortment \$3.65

1 jar 150-yd. Round Champion
Cutter Floss..... @ \$1.40
1 jar Champion Traction
Cord..... @ 1.50

(State whether you desire 0,
1, 2 or 3)

1 metal container Champion
Ribbon Floss..... @ 1.50
(State whether you desire
No. 14, 21 or 28)

Total regular price..... \$4.40
Special introductory price.... \$3.65

Sign and mail the coupon

CHAMPION DENTAL SILKS

Champion Cutter Round Floss

The standard of the dental profession for
over half a century. Sold in 150-yard sizes
and fourteen other containers—vials, spools
and domes.

Champion Traction Cord

Straightens teeth with gradual and painless
pull. The knots in this remarkably twisted
silk swell with the absorption of saliva over
a period of many hours, resulting in effective
separation of the teeth for filling. Made
in "O" (fine), No. 1 and No. 2 (medium)
and No. 3 (coarse).

Champion Ribbon Floss

For prophylactic work

Champion Ribbon Floss is braided, hence
the tape or ribbon does not spread. This
is a patented feature as other ribbon flosses
have merely laid filaments which destroy

the efficacy of the ribbon as the filaments
spread and split. Made in No. 14 (fine),
No. 21 (medium) and No. 28 (wide).

Gudebrod Bros. Silk Co.

603 Chestnut St., Philadelphia, Pa.

Please send me the following \$4.40 assort-
ment of Champion Dental Silks at special
introductory price of \$3.65: One 150-yd.
jar Cutter Round Floss; one jar No.
Traction Cord and one metal container
No. Ribbon Floss.

Name.....

Address.....

Dealer's Name.....

Consider—

What it costs to buy old-style head-rest napkins—

What it costs to launder them—

The time it takes to change them between sittings—

What it costs to replace them when worn out—

And you'll agree that

Hygienic Dental Head-Rest Pads



U. S. Pat. Nos. 775478 and 845822

was a happy thought.

They cost only \$1.50 per 200 sittings and it requires only an instant to provide a fresh, clean surface for your patient's head.

Made in two grades of paper—
No. 2 pads are white crepe paper—

No. 4 pads are impervious paper.

Ask your dealer about them.

GUSTAV SCHARMANN
1181 Broadway New York

18 YEARS AGO

The leading Dental Houses commenced to handle the "EUREKA" retainers on account of the design and the efficiency of attachment, allowing your patients to renew their own cups, which is the essential thing with a plate retainer.

Upper or Lower \$2.00
per box. Half Doz.

"Why Pay More"



1905-1923

EUREKA SUCTION CO.
Loudonville, O.



KERR SNOW WHITE PLASTER OF PARIS

For Impressions and Models

A high grade, snow white plaster, unequalled for hardness and purity. The uniformity of its quality can always be depended upon.

Sold in 10 and 60-lb. cans

Send for directions on the correct proportions and method of mixing.

At All Leading Dental Depots

DETROIT DENTAL MFG. CO.
DETROIT, MICH., U. S. A.

DENTISEPTOL

Counter irritant—Pyorrhoea astringent
Germicide

The Master of your Therapeutic Cabinet

Let the old make way for the new. You can dispense with at least 50 per cent of your therapeutic agents by the use of Dentiseptol. It has them all combined in a scientific manner.

Write for the SAMPLE—You be the judge

The Chemical Products Co., Inc.

Memphis, Tennessee

Sal Hepatica

Materially Aids
Local Treatment

IN

PYORRHEA

Samples on Request

Bristol-Myers Co.
NEW YORK



So Very Simple

The dentist who uses Lincrowns never needs to bother with impression and bite when a tooth is to be crowned.

He simply takes a wire measurement, slips this over the Lincrometer and the number at which it stops indicates the number of the Lincrown that will fit.

The Lincrowns are kept in a Lincabinet which makes it easy for him to locate the Lincrown he needs.

It is the simplicity of the Lincrown method that has made it so popular.

If, perchance, you are not a Lincrown user, let us send you a copy of the Lincrown booklet and explain how you can obtain a Lincabinet and a Lincrometer, and you will find it will pay to—

Link up with Lincrowns—worth more than their weight in gold.

LINCOLN DENTAL MFG. CO.
1600 Chestnut St.
PHILADELPHIA, PA.

*Here is
just a
peek at
the
handsome
Lincabinet*



Dentists and patients like them

Young's Polishers are made of the best grade of Flexible Rubber, which is vulcanized with great care to insure toughness and resiliency.

The heads of the metal screws, to which these polishers are securely vulcanized, are completely imbedded in the rubber to avoid the possibility of scratching the surface to be polished.



are correctly proportioned to conform to the complex contours of the teeth. They are symmetrical in shape and accurately mounted, which accounts for their smooth and true running.

To avoid crowding the polishing materials under the free margin of the gum, polishers should always be rotated in the direction brushing the polishing materials from the gum toward the occlusal or incisal surfaces of the teeth.

This necessitates revolving the polishers forward and reverse according to conditions presented.

Most dentists and all patients express a decided preference for flexible rubber polishers because they polish effectively without injury to the gum tissue and consequently without causing any pain. Furthermore, the disagreeable feature of splashing the polishing mixture is eliminated.

Send for the booklet about Young's dental products, mentioning your dealer. Booklet is free of course.

YOUNG DENTAL MFG. CO.
St. Louis, Mo.



ORTHODONTIC APPLIANCES

Expansion Arches supplied in four sizes—16, 17, 18 and 20 Gauge.

Adjustable Bands supplied in four styles, as illustrated. Open or Closed pattern.

Standard for Over 20 Years—
Ask Your Dealer.

Send for our Catalog.

**THE MEIER DENTAL
Manufacturing Co.**

3927 Olive Street, St. Louis, Mo.

"The Green Special Flexible Hypodermic Needle"

None genuine without
the Log Trade Mark



Price
\$2.00 per dozen

The obvious fine point and flexibility precludes the possibility of pain when injecting, while with the ordinary hypodermic needle the coarseness of point and rigidity causes a tearing and dragging sensation, which is painful and frightens the patient. With the Green Special you have none of the above disagreeable features. Once used Always Used.

He Who Serves Best Profits Most

You get out of your practice in proportion to what you put into it. The Green Special Flexible Needle is the only humane hypodermic needle on the market. Never fails to win the everlasting gratitude of your patients. We always have the genuine and the imitations with us. Beware of the unscrupulous dealer who claims to have a substitute just as good. None genuine without the LOG trade mark.

The Green Special Flexible Needle



The 2 (in One) Needle

L. O. Green, D.D.S. Heyworth Bldg., Chicago, Ill.
Please send me full data on

- ☐ Needles
☐ Green's Antiseptic Ointment
Antiseptic, Healing, Curative

Name

Address

DOWNIE'S IMPRESSION COMPOUND

A New Product
Fine Smooth Texture,
Non-Sticky.

Patented Separable
Cakes.

The best you ever used, or **YOUR MONEY BACK.**

Price: 1 box \$.50, 6 boxes \$2.70, 12 boxes \$5.00.

DOWNIE'S HARD BASE PLATE

**HARD BROWN BASE
FOR TRIAL PLATES**
Easily and quickly adapted.

The best Hard Base made,
or **YOUR MONEY BACK.**

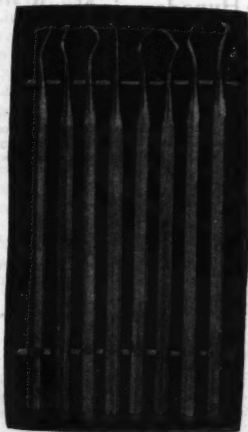
UPPERS, LOWERS, ASSORTED

Price: 1 box \$.60, 6 boxes \$3.30, 12 boxes \$6.00.

J. H. DOWNIE CO.

714 Paschal St.

San Antonio, Texas, U. S. A.



Immunity Steel

IT ENDURES

The Hu-Friedy Group: Eight (8) Scal-
ers selected and grouped as suggested by
Oral Hygienists as a set of a few scalers for
general prophylaxis. These Scalers are
manufactured of "IMMUNITY STEEL"
and are RUST AND ACID PROOF.

**Price per set \$12.00
with DeLuxe Box**

Will send for 10 days inspection direct or
thru your dealer.

Every conceivable instrument used by the
dental profession is now manufactured of
"IMMUNITY STEEL".

Request our catalog showing a complete
line of modern instruments used in Oral
Surgery and Exodontia.

The Hugo Friedman Mfg. Company

"Immunity Steel" is identified only with "Hu-Friedy" Products

3660 Milwaukee Ave.

Chicago, Ill.

Easily corrected with



B. P. P.

It is estimated that about seventy-five per cent of ill-fitting dentures lack proper peripheral contact. This is easily corrected with B. P. P., as illustrated.

B. P. P. is a non-elastic, plastic, vulcanizable paste and is used for refitting artificial dentures without remaking plate.

Here is the technique: Place paste on back of plate and press to place either on plaster model or in patient's mouth; the excess is forced out and only enough remains on plate to compensate for defect. Flask with one pour—no opening of flask necessary. Vulcanize same time and temperature as vulcanite rubber.

For sale by all dealers in dental supplies.

Enough for six to ten plates.

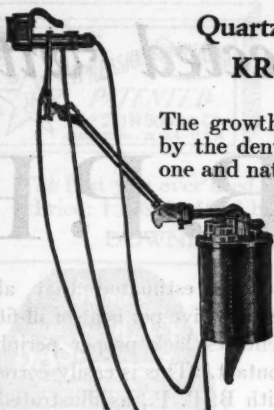
Price \$3.50 per package Full directions with each package.

If ordering direct send money order or draft

Address Dept. "H"

Pioneer Manufacturing Company

Macon, Missouri

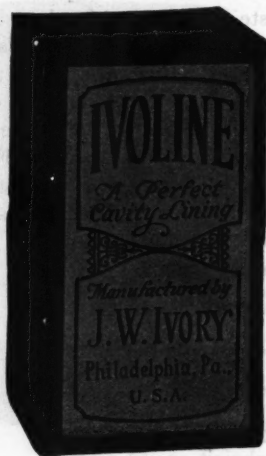


Quartz Light in Dentistry KROMAYER LAMP

The growth of the use of Quartz Light by the dental profession is a very rapid one and naturally along with it a considerable amount of literature has been published.

We shall be pleased to send a set of interesting reprints to you on the work done in Oral Infections, Pyorrhea and Post Operative Cases upon your request for booklet "R."

Hanovia Chemical & Mfg. Co.
Newark, N. J.



At Last!

a perfect cavity lining

IVOLINE

This is a new product you will like.

It is worthy of a trial.

Once used—no other will do.

Protect all fillings during early stages of hardening.

All dealers.

J. W. Ivory

Philadelphia, U. S. A.

How difficult

was it for you to compile your income tax report?

How many dollars did you pay in excess of the proper tax simply because you could not figure, from your books, all the deductions to which you are entitled?

Perhaps you have an elaborate bookkeeping system and have still been unable to get these vital figures—this is the trouble with elaborate systems, they sometimes make you serve *them*, rather than serving *you*!

If you have been through this, you will welcome the

DOCTORS' DOLLAR SUMMARY

It is the multi-column, loose-leaf book—a single book—that accounts in a simple way, for every penny of every dollar that you take in or pay out.

It is so simple that your office assistant can take care of every item of it—and, at the end of the year, income tax figures can be taken off at once without further additions, subtractions or distribution being made.

The editor of ORAL HYGIENE, himself, tells us that this is exactly what he has been looking for and he has installed our system to replace elaborate, cumbersome systems that did not give him the vital figures so readily as ours does.

Price, 100 leaf size "8½ x 11" \$10.00 (enough for more than a year, 5400 lines)

O. D. ten days' examination and if book does not answer your purpose return same and your money will be refunded. Refills, 100 leaves \$6.50, all over 100 cents each. A system complete for simplicity, compactness and economy.

It is almost impossible to see a dentist personally to sell something, so I send this 10 days' examination, which I feel you must see in order to appreciate.

Start now or any time during year.

G. A. Ostermeier

New London

Wisconsin

ention your dealer. Dealers—Write for terms

IPANA TOOTH PASTE

Heals Bleeding
Gums

*"I will recommend this
tooth paste exclusively"*

The above quotation is from a letter from one of your brother dentists.

He says this because he has tested Ipana and knows that it contains no grit, is deodorizing, hemostatic and stimulating in its action and safely performs the antiseptic and cleansing functions vital to a dentifrice.

*You and your patients
should know and
use IPANA*

A professional sample
awaits your card.

**BRISTOL-
MYERS CO.**

42 Rector St.
New York
City

Makers of
Sal Hepatica



Oral Hygiene Bulletin

ORAL HYGIENE is mailed monthly to every dentist whose name can be secured. The circulation guarantee is a minimum of 45,000 copies per issue. The present circulation exceeds a monthly average of 55,000 copies.

This page is restricted to help and positions wanted, practises wanted and practises for sale. The rate is 10c per word, initials and figures each counting as a word, each initial and figure of the address also counting as a word, as well as the heading.

Copy must be in the hands of publisher by first day of month preceding date of publication. Cash must accompany all orders.—ORAL HYGIENE, PITTSBURGH, PA.

FOR SALE—Old established office in one of the best cities in Kansas. Will sell lease, furniture, etc. Office is located in one of the larger cities where business conditions are unusually stable. This proposition will bear close investigation. For further particulars address "W" care Pearce Dental Supply Co., Wichita, Kansas.

Six thousand dollar **CASH YEARLY** dental practice for sale in best location in one of Kentucky's best business towns. Population seven thousand. Modernly equipped—cheap rent—ideal mountain climate. Sell for invoice—one thousand down, balance in small monthly payments. Write or wire "120" care ORAL HYGIENE, Pittsburgh.

FOR SALE—Office and practice in southwest Missouri town of two thousand, surrounded by good farming community, no competition and large territory containing several inland towns to draw from. Office is completely equipped with electric engine, lathe, fountain cuspidor, etc. A rare opportunity for young progressive dentist beginning practice. For quick sale will sacrifice for \$750. Terms or liberal discount for cash. Address Box 242, Granby, Mo.

Dental Laboratory, well equipped, good stock teeth, valley town in California. Inquire T. A. Strobridge, Flood Building, San Francisco.

TENNESSEE dental practice, home and equipment for sale. Ethical county seat practice. No competition, located in the most fertile part of state. Excellent opportunity for young married man who is a fast workman. Address "Tenn." care ORAL HYGIENE, Pittsburgh, Pa.

WANTED AT ONCE—One or two first class operators. "M" ORAL HYGIENE, Pittsburgh.

FOR SALE—Good practice in Iowa town of one thousand. Extra large territory. Plenty of work, good prices. "Iowa" ORAL HYGIENE, Pittsburgh, Pa.

WANTED DENTIST—Must be licensed in North Dakota. Best of salary paid. Apply to N. Y. Dental Co., 118 Broadway, Fargo, N. Dakota.

Position for experienced dentists of good character and habits, registered in Pennsylvania. Good salary and commission. Address 501 Market St., Pittsburgh, Pennsylvania.

Dentists from local and distant states send their relatives, friends and employees here for training because they know they will return well grounded in the fundamentals of mechanical dentistry and be able to go to work in the laboratory. Board and lodging arranged for in advance. General Course or Post Graduate Course. Send for Catalog D. West Side YMC School of Mechanical Dentistry, 318 West 57th Street, New York, N. Y.

COLLECTIONS—Dental accounts only. Anywhere U. S., no collection—no charge. Debtors located. References: Continental & Commercial Bank, Chicago. Edward Collins, Hartford Building, Chicago.

QUICK COLLECTIONS—Send us your accounts today and get "Quick Results." Collections made everywhere. Wm. I. Dodd, 87 Nassau Street, New York. Established 30 years, one address.

FOR SALE—Best cash country dental practice in Utah on U. P. Railroad, drawing population four thousand or better. No competition; good prices, good equipment, access to X-Ray machine. Reason for selling: want to specialize. Act quickly as this will not last long. Address "F. S. L." Western Dental Supply Co., Box 1387, Salt Lake City, Utah.

THE CAMPHO-PHENIQUE PRODUCT

CAMPHO-PHENIQUE (liquid) is to be found at the hand of every skilled surgeon in all delicate or important operations, as its powerful antiseptic and germicidal properties help greatly to insure success. It exerts a healing influence that imparts a stimulus to the tissues calculated to induce more rapid granulation.

In the minor surgical operations and as an external application for wounds, burns, scalds, sores, ulcers, boils, felons, chancres, it is universally used by both surgeons and physicians. It is constantly needed in the office of every practitioner.

If not obtainable at the Drug Stores, order direct. We will send to any Physician, Surgeon or Dentist anywhere in the United States, postpaid, on receipt of price.

CAMPHO-PHENIQUE LIQUID, 4-oz. size.....	\$2.00
CAMPHO-PHENIQUE LIQUID, small size.....	.50
CAMPHO-PHENIQUE POWDER, in sifter top cans.....	.25
CAMPHO-PHENIQUE OINTMENT, 4-oz. cans.....	1.00

Samples mailed on request.

Address: **CAMPHO-PHENIQUE CO.** St. Louis, Mo.





DEE MERCURY

Purest of the Pure

Chemically
Prepared
Packaged and
Sealed

Eliminating
Possible
Contamination
Even to the
Last Drop

ABSOLUTELY NO LOSS OR LEAKAGE

For better Amalgam Restorations

Use C. P. MERCURY from the
DEE MERCURY SHAKER

You Will Like It

Thomas J.

DEE & CO.

Refiners and Manufacturers
GOLD—SILVER—PLATINUM
CHICAGO

Purchasing and Sales Dept.
5 So. Wabash Ave.

Refining and Manufacturing Plant
317-319 E. Ontario St.

FOR CONTROL OF PAIN

ALLONAL "Roche"

A new NON-NARCOTIC Drug

ANALGESIC
SEDATIVE and HYPNOTIC

Excellent results in painful affections, post-operative pains after extractions, pains of pulp, periostitic and periodontal pains, and in pre-operative work as a sedative for reducing the sensitiveness to pain in sensitive, nervous patients.

In larger doses it will not only quiet pain but produce sleep.

Bottles of
12 and 50 Tablets (2½ grs)

DOSAGE: As sedative,
1 to 2 Tablets. As
analgesic hypnotic,
2 to 4 Tablets.

Supplies for trial and Literature will be furnished on request

The HOFFMANN-LA ROCHE CHEMICAL WORKS, NEW YORK

IRREGULAR TEETH

ARE THE CAUSE OF
PARTIAL DENTURE FAILURES

*Why Not Have
SUCCESS?*

Why "sweat blood," as one dentist said, by trying to fit a partial denture with clasps over crooked teeth, when by the use of one or more

Kayle Clasp Attachments

your clasps will glide easily over teeth, without opening them, take off stress and strain, allow teeth to function naturally, and attain suction.

Send for Booklet.

Kayle Co., Inc., 220 West 42nd Street,
NEW YORK CITY.

Phone: Chickering 5850

Alike as two peas? More So!

TWO peas look alike. Duplicate parts for Terry Hand-Pieces look alike. But the caliper will detect a difference in the peas which it will not find in

Terry Hand-Piece Parts

which—part for part—are precise and exact duplicates

All parts are interchangeable—so accurately made that all duplicate parts are precisely alike. This distinction is exclusive with Terry.

Furthermore, Terry hand-piece parts are adaptable to other makes of standard hand-pieces. And Terry parts, in some instances, possess exclusive improvements which, however, do not affect their interchange ability with parts of other standard hand-pieces. For instance: all Terry angle heads are equipped with Involute (curved tooth) Gears—originated by Geo. A. Terry.

Ask for folders—and about our famous Re-Building Service. Send your card.

Geo. A. Terry Mfg. Co., Inc.

50-356 South Elmwood Ave.

Buffalo, N. Y.

Established 1910—Growing Ever Since

The Original **Terry** of Buffalo

NOVOCAIN

The Frequent Users' Economy Packages



The New Style
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bottles of 100

N. S. Tablets "E" and "T"

\$1.20 per bottle

Box of 10 bottles \$10.00

For two percent. solution, dissolve one N. S. tablet "E" or one N. S. tablet "T" in one cc. Ringer solution.

The N. S. tablet "E" is preferable for mandibular injections and for anesthesia when pronounced ischemia is desired.

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They Relieve Pain—

That's why you need
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That's why we sell them to the better dentists in the U. S., Canada, Europe, Australia, and Japan.

Counter-irritation, perfectly applied by means of these little medicated suction cups will stop periodontal pains and fully relieve suffering caused by abscesses and ulcerations.

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Sterilizes mouth mirrors, syringes, needles, rubber caps, etc., by the germicidal vapor from Web Sterilizing Fluid. No heat needed.

Also recommend to your patients for tooth brushes, plates, removable bridges, etc.

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For Catarrh—Influenza—Cold in Head—Nasal Catarrh—Stopped up Nose—Bad Breath—Inflammation of skin and tissue. Thousands of Dentists, Physicians and Nurses recommend KONDON'S.

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Minneapolis, Minn.

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For Prophylactic and Pyorrhea Work



All Tape Dental Flosses made in five standard widths.

Style No. 304—as illustrated, contains one-ounce Waxed Tape in Dome.

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Style No. 302—Put up in $\frac{1}{4}$ Ounce Glass Vials.

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Because of convenience in size *Styles No. 300 and No. 302* are recommended for Patient's use.

THE DENTISTS FAVORITE

Style No. 226—illustrated contains 150 yards of perfect Round Dental Floss, Uniform in Size and Waxing. Has metal Cap, with Outlet and Cut-off. An air-tight container, which keeps the floss clean and sterile.

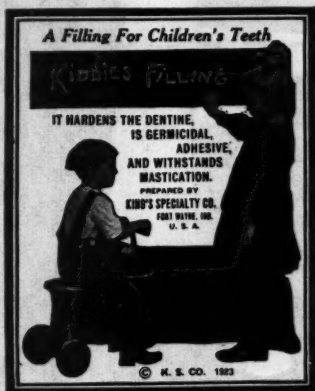
Sample Card of Sizes, and Illustrated Catalogue, showing our different styles of put-up, will be furnished on request.



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Price in U. S.

\$2.50 per package
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Unified Equipment is becoming universally standard. At least ninety-five percent of the 1923 graduates installing new Outfits, included a Unit.

Clark Units with their mechanical and electrical excellence, coupled with artistic design and fine finish are assisting scores of new dentists, scientifically and esthetically.

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Do you average \$100.00 for your vulcanite partial dentures? Or, are you still making them the old way at the old standard of fees?

Several thousand dentists in the U. S. average \$100.00 per case. This is the minimum fee for many of them. And they are not serving a hand-picked group of millionaires.

They are serving AMERICANS, people who will pay the utmost for the *utmost in service*. They use Dresch Attachments in their partial denture work.

Dresch Attachments make it possible for any Dentist to render the utmost in partial service. They will help you render better dentistry, and the financial reward will be in harmony with the service.

We have authoritative free literature awaiting your request. Send immediately.

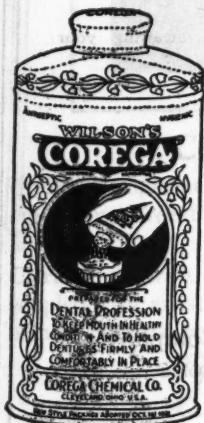


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A Small Can of *Wilson's Co-re-ga* Should Go with Each New Plate

A wonderful comfort powder to
assist patients with their new
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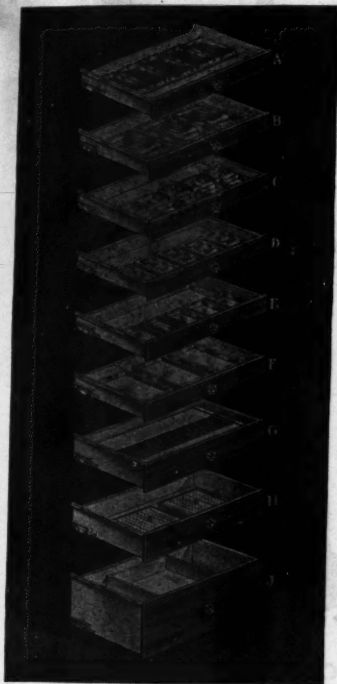
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Beauty and Utility Combined in an Unusual Degree



in American Cabinet No. 120.

The beauty of figure and finish of the wood cabinet and the advantages of the steel cabinet combined, are making this new piece of furniture talked about from coast to coast.

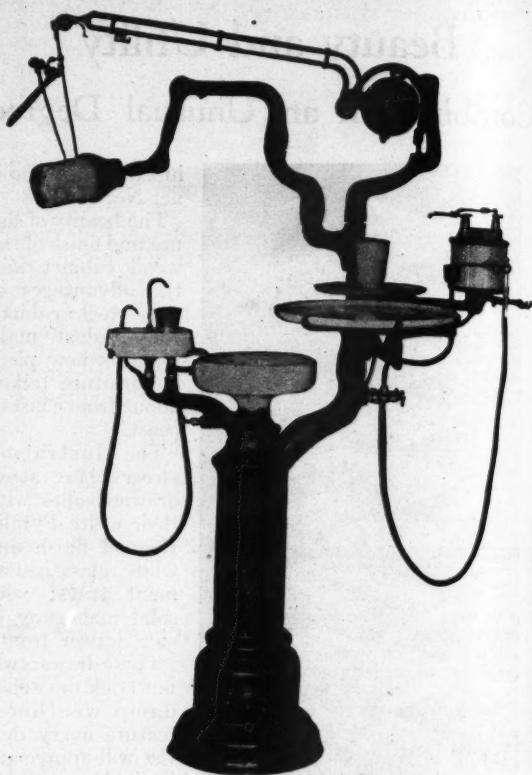
The illustration shows the steel drawer-bodies with their white Pyralin Enamel finish and white glass instrument trays; with solid mahogany or oak drawer fronts.

These drawers will not stick or swell in damp weather a feature every dentist will appreciate, and they run as noiselessly as wood drawers.

IF you have not investigated this and our No. 125 Cabinet, it will pay you to do so. Ask your dealer. Others may try to imitate our new cabinets, but never accept a substitute for American Cabinets. They are always inferior.

The American Cabinet Co.

Two Rivers, Wis.



Weber Special Unit, Model "E"

This model consists of Fountain Cuspidor, either No. 55, 50 or 46, Weber Spray Heater, Automatic Cut-off with tubing and connections and Chip-blower; Bracket Table; Auxiliary Table; Bunsen Burner; Waste Cotton Receptacle; Adjustable Dental Light; pipes for Gas and Air and Sub-base for either concealed plumbing or pipes above the floor.

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"Efficiency is measured by the degree of adaptation of the means to the end"

For oral use ALKALOL is of especially designed efficiency.

It is an active solvent of mucin and pus.

It is rich in chlorine which assures inhibitory action and effect upon pathogenic organisms.

It is decongestive and depurative without being an excitant of hypersecretion. It relieves congestion.

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ALKALOL, therefore, serves the dentist efficiently at the chair, before or after extraction, during operation, as a dentifrice and to promote and maintain ORAL HYGIENE.

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Ethical Dental Signs

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*Ask your dealer
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is an unusual tooth-powder—true that it may also be dissolved in water and used as a mouth wash, I want to know about it.

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AN IDEAL DENTURE IS LINED WITH GILBERT'S METALLIC LINING

It is in fluid form and is easily applied with a brush over the surface of the plate before vulcanizing.

It produces a beautiful lining of aluminum, and will not peel, as it is vulcanized into the surface of the plate.

Price—enough for ten dentures..\$1.00

FOR A BEAUTIFULLY POLISHED VULCANITE DENTURE USE

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This consists of a fluid and powder to be brushed over the surface of the cast just before vulcanizing. It will give you satisfaction.

It is particularly useful where *Metallic Lining* is used, as it brings out the full polish of the aluminum.

Price per package..... .75

All goods guaranteed. Money refunded if not satisfactory.

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SOLE SELLING AGENTS



It has finger protectors and is extremely sensitive.

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THE Roscinian Linings are Metallic Linings of 24K gold or aluminum to be used on all new rubber dentures, counteracting the deleterious effects of the vegetable product caoutchouc, on the palatal tissues contacting with a denture in the oral cavity; especially valuable in preventing heated, spongy gums; producing and sustaining a strictly *oral hygiene*. The mechanical effect is really beautiful and your professional suggestion is gladly paid for.

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Q If necessary, send your lining cases to our laboratory for the Roscinian Linings to be put on, where your denture will be made and finished, representative of the highest art in this branch of prosthetic dentistry.

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**Metallurgists and Manufacturers
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Holding the Mirror Up to Nature

Your patient would as soon have you use bright green rubber for the gum shade on his plate as to use a pink that was off color.

Your plates must be as near Nature as possible—which means you must use a superior rubber.

Eugene Doherty's New Improved Pink Rubbers

in light, medium light and deep shades, fully answer every possible requirement in the making of gum shades for plates. Not only do they make the most natural plates, but they are tough and durable to a remarkable degree.

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from the amount of electric-
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UNIT, in which the tube,
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*And it is as
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Your Patients Want Relief From Pain

They want it quick.

Every human instinct suggests that you afford such relief and with the promptness demanded



MYNOL DENTAL POULTICES

enable you to RELIEVE PAIN quickly and effectively



MYNOL DENTAL POULTICES

are indispensable in modern dental practice

Used inside the Mouth, against the inflamed area, will quickly relieve congestion, resolve inflammation and bring the worst abscess under control in a short time.

Mynol Poultices are positively sanitary and soothing, and will not burn or blister the tissues with which they come in contact.

Their application is very simple, and may be made either by the dentist or patient.

Order a box of MYNOL DENTAL POULTICES carried in stock by your DEALER, or sent direct for \$1.50 a box of THIRTY POULTICES.

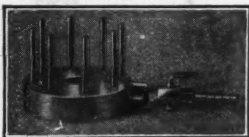
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Torit Investment Heater No. 39



For use with acetylene only. No air pressure required. Heats the investment evenly and quickly. Heater No. 39 is furnished with 5 ft. tubing and connection for auto acetylene tank.

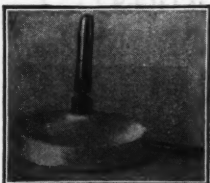
Price \$10.⁰⁰

Torit Investment Heater No. 46

Same as No. 39, but for use with city gas. No air pressure required. Heater No. 46 is furnished with 5 ft. tubing for slipping over gas connection.

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Torit Bunsen Burner No. 42



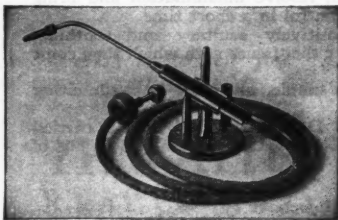
For use with acetylene only. No air pressure required. Furnished with 5 ft. tubing and connection for auto acetylene tank.

Price \$4.⁰⁰

Three-Way Manifold No. 52

For connecting Torch No. 36, Investment Heater No. 39, and Bunsen Burner No. 42 to auto acetylene tank so that all three may be used at the same time off the same tank.

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Torit Dental Torch No. 36

For use with acetylene only. No air pressure required. Capable of a great variety of gold or silver soldering or brazing. Furnished with 5 ft. tubing and tank connection.

Price \$7.⁵⁰

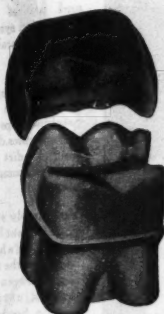
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Dr. Peck's Investment is laboratory tested. Every batch is subjected to an actual casting test.

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Hart Casting Gold

FORMULA. For inlay abutments, Hart or Tinker three-quarter crowns. Melts with ordinary blowpipe.



Price, at your dealer's, per dwt. \$1.75

Both of these products are manufactured by

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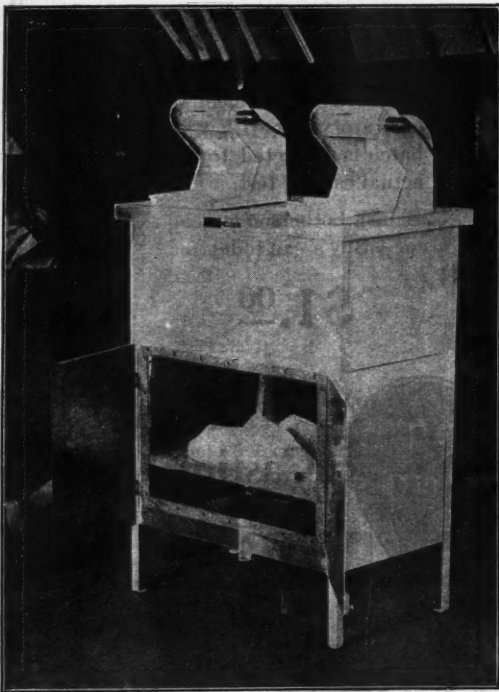
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That Dusty Electric Polishing Motor can be made Dustless with LEIMAN BROS

The constant inhalation of dust soon impregnates the lungs with impurities. This eventually means sickness and possibly death. No argument is necessary in order to impress on the dental trade and profession that this condition should not be allowed to exist. Many have the opinion that a little grinding or polishing daily does not justify their going to any expense in protective measures—nothing could be further wrong because we all know that this little amount of dust daily is bad—and just as effective as the little drop of water constantly at work wearing away a surface.

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Patented

GET THIS DUST COLLECTOR

because it can actually make money for you by saving the gold particles that you are now losing. Get it because it will prevent your lungs from becoming clogged with disease, breeding dirt and dust. Get it because it will make your laboratory cleaner, fresher and more attractive. Ask for Catalog.

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The machine substantially built and utilizes one time-tried system of dust separation.—The cloth bag that catches the dust is self emptying—When the machine stops the bag collapses, dumping the dirt into the lower compartment.

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Operates from any electric light socket—suction hoods are lighted—hoods have removable wet pumice pans.

A SMOOTH RUNNING SILENT OUTFIT Use your own polishing and grinding motor and collect the dust.

Specify the kind of current you use—see the electric light company.

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an everlasting grip
is an exclusive feature of*
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*Try some samples
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A successful experience is a diploma from
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EVIDENCE OF A SUCCESSFUL EXPERIENCE WITH
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Your favor of the 12th at hand. I am more than satisfied with the manner in which you have handled this case. The mental and physical relief afforded a holder of your protective policy in the time of stress, when suit is filed, when the trial is on, is of itself worth over many times the cost.

This is the first and only case I have had in an active practice of thirty years and I had no thought that the "lightning" would strike me, I being immune for so many years.

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A record which knows no counterpart.

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The ORIGINAL Dr. Hartzell Brush

Scientifically constructed to simplify the more perfect cleaning of teeth—brushes especially designed for treatment of pyorrhea.



No. 2
Two Row

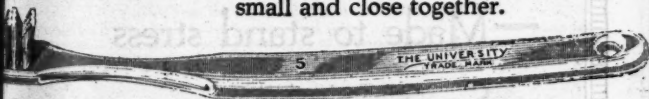
\$3.25 per dozen. \$36 per gross.
For general use on outside surfaces



No. 7
One Row

\$2.75 per dozen. \$30 per gross.

Ideal for children and adults where teeth are small and close together.



No. 5
Special

\$4.50 per dozen. \$48 per gross.

Inside lingual surfaces of all teeth—vitally necessary in the perfect care of teeth.



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3 Row

\$4.00 per dozen. \$42 per gross.

Small adult size for cleaning all outside surfaces—bristles trimmed to allow easy crowding between teeth.

**Terms 5% Discount—Cash With Order
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A Hand-Made, Imported Brush

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Sturli's
you know that they are:

- Absolutely interchangeable
- Natural in appearance
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Let us know your problems,
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The Columbus Dental Manufacturing Co.
Columbus, Ohio, U. S. A.

TINKER GOLDS

The signature of E. T. TINKER is stamped on every piece



Tinker gold No. 1 for full and three-quarter jacket crowns. Contains a sufficient amount of platinum to give the necessary rigidity, but not too hard so as to cause a springing away from the cement joint during the stress of mastication.

(Two dwt. ingots) Melts at 1940° F

Tinker gold No. 2 for lower incisors and upper three-quarter crowns when a close bite is required in the thinnest type of attachment. A harder metal than No. 1, containing considerably more platinum, though so alloyed that it has a gold color.

(Two dwt. ingots) Melts at 1965° F.

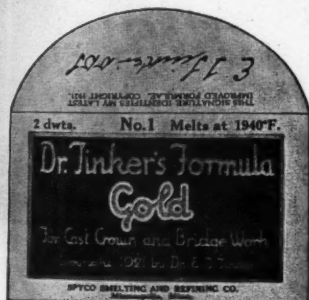
Tinker gold No. 3 for cast clasp attachments, over-arch bars, etc. Unusually tough, springy and strong, a very high platinum group combination, makes casts uniformly smooth and clean, metal retains its elasticity, toughness and spring after casting.

(Two dwt. ingots) Melts at 1980° F.

Tinker gold No. 4 (gold color) for saddles, over-arch and lingual bars, horse shoe plates, partial and full plates. It is unusually springy and strong, melts with the ordinary blow pipe, retains its spring and toughness after casting, casts clean without pitting, is very dense.

(Two dwt. ingots) Melts at 1775° F.

All these golds can be melted with the ordinary gas and air blow pipe.



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Purchasers and refiners of gold, silver and platinum

Manufacturers of Tinker golds and alloys

Minneapolis,

Minnesota.



Pro-phy-lac-tic

DENTAL PLATE BRUSH

One of these Brushes Free to Dentists

There isn't a depression in any dental plate that this brush will not reach easily.

Any dentist after inspecting the Pro-phy-lac-tic Dental Plate Brush will gladly recommend it, because it does the work so thoroughly and easily.

Write for free sample and see how the forward tuft of stiff bristles reaches every part of the plate.

We also furnish booklets on the care of artificial teeth, imprinted with your name if you wish.

Florence Manufacturing Co.
Florence, Mass.

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